Form 9-331 C
(May 1963)

SUBMIT IN [illegible]LICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER — SINGLE ZONE [ ] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR: Phillips Petroleum Company

3. ADDRESS OF OPERATOR: P.O. Box 2920, Casper, Wyoming 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 2020' FNL 2090' FWL (SE,NW) ✓
At proposed prod. zone: Same

5. LEASE DESIGNATION AND SERIAL NO.: 14-20-603-353 ✓
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo
7. UNIT AGREEMENT NAME: SW-I-4192
8. FARM OR LEASE NAME: Ratherford Unit ✓
9. WELL NO.: # 20-22
10. FIELD AND POOL, OR WILDCAT: Greater Aneth ✓
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 20-T41S-R24E
12. COUNTY OR PARISH: San Juan
13. STATE: Utah

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: Approximately 4.5 miles south of Montezuma Creek, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 3190' West of Ratherford Unit lease line
16. NO. OF ACRES IN LEASE: 2534 Acres
17. NO. OF ACRES ASSIGNED TO THIS WELL: 40 Acres

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: 1180' north of #20W23
19. PROPOSED DEPTH: 5700' Desert Creek
20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 4787' ungraded ground
22. APPROX. DATE WORK WILL START*: Sept. 1983

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 ½"	13 3/8"	48#	100'	150 sx Class B (to surface)
12 ¼"	9 5/8"	36#	1600'	400 sx HLC & 400 sx Class B (surface)
8 ½"	7"	20#, 23#, 26#	5700'	1,000 sx est (T.O.C. approx. 2000 ft

Approval is requested to drill Ratherford Unit #20-22, a Desert Creek Development oil well ✓ to increase the ultimate recovery from the Ratherford Unit.

BOP equipment will be operated daily and tested weekly.

RECEIVED
SEP 06 1983
DIVISION OF OIL, GAS & MINING

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 9/7/83
BY:

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED: A. E. Stuart — TITLE: Area Manager — DATE: 8/30/83

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

5-BLM, Farmington, NM
2-Utah O & G CC - S. L. C. Utah ✓
1- J. L. Whitmire (r) T. C. Doughty
1-G. W. Berk
1-T. M. Isaacs

*See Instructions On Reverse Side

Form 9-331C & Location Plat only-Barbara Conner
Form 9-331C & Location Plat only- R. M. Coffelt

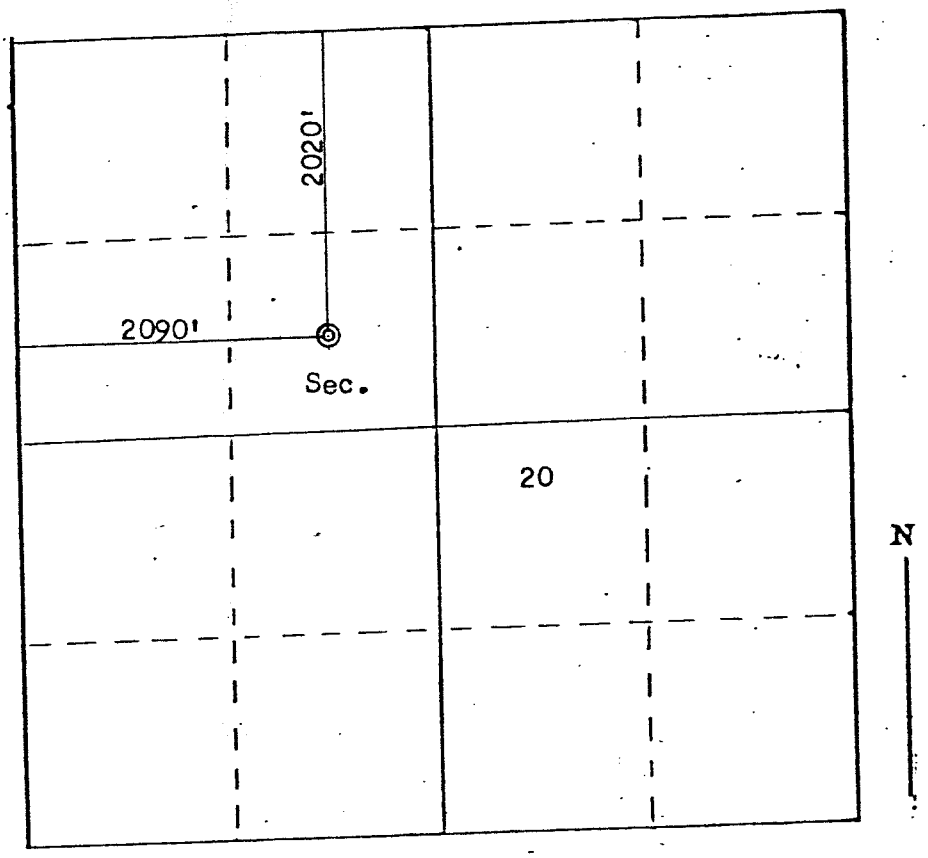
COMPANY PHILLIPS PETROLEUM COMPANY

LEASE RATHERFORD UNIT WELL NO. 20-22

SEC. 20 T. 41S R. 24E
SAN JUAN COUNTY, UTAH

LOCATION 2020'FNL 2090'FWL

ELEVATION 4787 ungraded ground



SCALE 4 INCHES EQUALS 1 MILE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTE OF ACTUAL SURVEYS MADE BY ME UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

SEAL:

Registered Land Surveyor.
#3950
FRED B. KERR, JR.

SURVEYED August 8, 19 83

FARMINGTON, N. M.

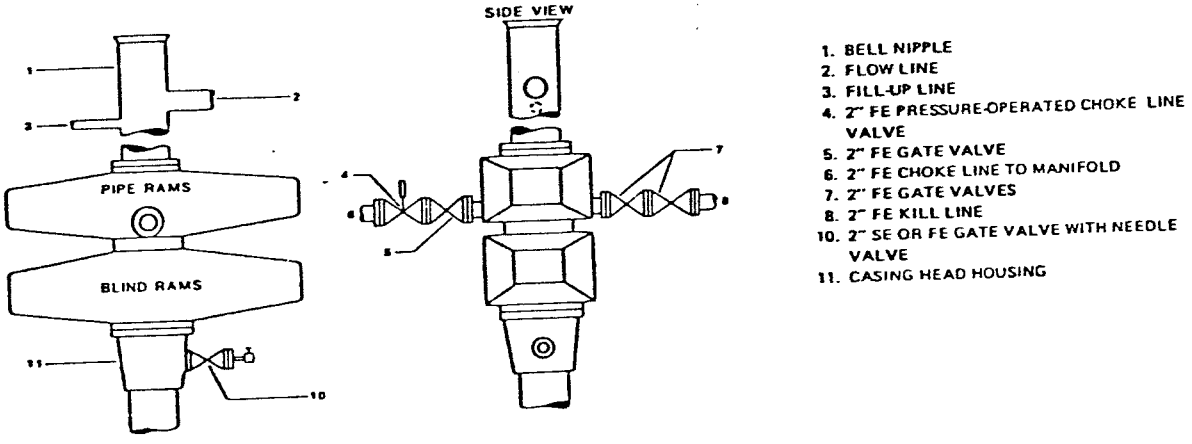


Figure 7-10. Standard Hydraulic Blowout Preventer Assembly (2 M or 3 M Working Pressure) Alternative 3 (without Drilling Spool)

BLOWOUT PREVENTER TESTING PROCEDURE

A. INITIAL INSTALLATION TEST FOR INSTALLATIONS AS SHOWN ON FIGURE NO. 7 - TWO RAM UNITS

After all blowout preventers, regular choke lines, valves, bell nipples, and flow lines are rigged up, the following steps are to be carried out with no exceptions: (Emergency choke and kill lines are not to be connected below the bottom preventer at this time.)

reparations for Test teps 1-9

1. Inspect all flanges to see if all bolts are in place and tight.
2. Check all opening and closing lines to preventers to see if they are correctly placed, hooked up, and tight.
3. Check to see that all control valves are properly marked.
4. Open bradenhead valves and wash inside of preventers with water from the top. No lines are to be connected to the bradenhead at this time.
5. Connect water into suction of mud pump and pump water through kill line and out bradenhead valves until water clears up.
6. Connect test line in place of kill line.

A. INITIAL INSTALLATION TEST FOR INSTALLATIONS AS SHOWN ON FIGURE NO. 7 TWO RAM UNITS (Contd.)

7. Connect kill line to one bradenhead valve and open valve.

8. Close other bradenhead valve.

9. Fill preventers with water.

10. Close blind rams with 1,500 psi.

Casing Blind Ram and Bradenhead Test Steps 10-24

11. Check closing line and preventer for leaks.

12. Pressure up casing with mud pump to pressure required to test casing using water. Hold for 10 minutes.

13. Check bradenhead, bradenhead valve flanges, and blind rams for leaks.

14. Install a pressure gauge on the bradenhead valve opposite where the kill line is tied on.

15. Open bradenhead valve to read casing pressure.

16. Close bradenhead valve on side where kill line is tied on.

17. Release pressure on kill line.

18. Disconnect kill line from bradenhead valve.

19. Check bradenhead valve for leaks on the side where the kill line was disconnected. See that casing pressure has not dropped below the required test pressure.

20. Remove pressure gauge and bleed down casing.

21. Close bradenhead valve(s).

22. Open blind rams with 1,500 psi.

23. Check opening line and preventer for leaks.

24. Disconnect kill line from bradenhead valve and open both bradenhead valves.

BOP Stack and Choke Line Test Steps 25-38

25. Run test plug in on a joint of drill pipe, set in seat.

NOTE: Test plug to be fabricated so that there will be enough clearance between plug and pipe rams to clear tool joint when closed on joint of drill pipe made up in plug. The plug must be drilled so there is communication between inside of drill pipe and top of plug above seal surface.

A. INITIAL INSTALLATION TEST FOR INSTALLATIONS AS SHOWN ON FIGURE NO. 7 TWO RAM UNITS (Contd.)

26. Install safety valve and kelly on top of drill pipe.

27. Fill preventers with water.

28. Open all valves on choke lines and check to see that water is flowing through each outlet. Let run until clear. Open valves on kill line side of spool.

29. Close outside valves on choke lines making sure they are full of water and have no trapped air.

30. Refill preventers if necessary.

31. If Hydril is used in place of upper ram type preventer, close 1" plug valve on closing line. Test to 1,500 psi. Inspect valve for leaks. Release pressure. Open valve.

32. Close pipe rams or Hydril with 1,500 psi.

33. Check closing line and preventer for leaks.

34. Open stand pipe valve, kelly cock, and safety valve, and fill kelly with water.

35. Close kelly cock.

36. If Hydril is used, reduce closing pressure to that recommended on page 56. Closing pressure may be increased as required to effect a seal up to a maximum of 1,500 psi.

37. Pressure up to working pressure of preventers through test line. For maximum Hydril packing unit life, as the test pressure builds up, reduce the closing pressure and later apply opening pressure per applicable schedule starting on page 57, provided a schedule is listed for the Hydril in use. Hold test pressure for 10 minutes.

38. Check all valves, flanges, and seals that are under pressure for leaks and tighten if necessary. Check test plug for leak.

Choke and Kill Valve Tests
Steps 39-55

39. Close second valve from hole on choke line. Open outside valve on full opening line. Hold pressure for one minute.

40. Check to see if valve leaks.

41. Close inside valve on choke line. Open second valve out on choke line. Hold pressure for one minute.

42. Check to see if valve leaks.

A. INITIAL INSTALLATION TEST FOR INSTALLATIONS AS SHOWN ON FIGURE NO. 7 TWO RAM UNITS (Contd.)

43. Close safety valve and open kelly cock.

44. Check safety valve for leaks.

45. Close inside valve on kill line side. Open inside valve on choke line side. Hold pressure for one minute.

46. Check to see if valve leaks.

47. Close second valve out on kill line. Open inside valve on kill line. Hold pressure for one minute.

48. Check to see if valve leaks.

49. Open second valve out on kill line. Close inside valves on kill line and choke line.

50. Disconnect test line; connect kill line.

51. Open pipe rams (or Hydril) with 1,500 psi.

52. Check opening line and preventer for leaks.

53. Pull plug out of hole.

54. Close bradenhead valves.

55. Record test on drilling report.

B. RAM CHANGE TEST FOR INSTALLATIONS AS SHOWN ON FIGURE NO. 7 OR 8 - TWO RAM UNITS

If Hydril is used in place of upper ram type preventer, ram change test is not required since no change will be made in preventer assembly to run casing.

Preparations Steps 1-2

1. After getting out of hole, open choke line valves and drain mud out of preventers. No lines are to be connected to Figure 7 bradenhead valves at this time.

2. Wash inside of preventers from top with water.

Ram Change Steps 3-9

3. Close blind rams.

4. Open bonnets or doors on upper ram type preventer.

5. Remove drill pipe rams.

6. Install rams to fit casing.

B. RAM CHANGE TEST FOR INSTALLATIONS AS SHOWN ON FIGURE NO. 7 OR 8 - TWO RAM UNITS (contd.)

7. Close bonnets or doors, checking all seals and "O" rings.

8. Tighten up all bolts and inspect preventer to see that bonnets or doors are closed, steel to steel.

9. Open blind rams.

Casing Ram Test Steps 10-22

10. Install test plug and test line on extra joint of casing the same size that is to be run. Casing joint used must be of sufficient strength to withstand test pressures. The crossover connections used to get from casing joint to test plug must be short enough to permit the casing rams to close against casing.

11. Set test plug in casing spool.

12. Fill preventers with water.

13. Close casing rams.

14. Purge air from casing joint.

15. Pressure up through casing joint to working pressure of preventers. Hold for 10 minutes.

16. Check for leaks in all flanges and seals that hold pressure, especially bonnet or door seals on preventer changed.

17. Release pressure.

18. Open casing rams.

19. Pull test plug out of hole.

20. Close choke line valve.

21. Change sign on valve on blowout preventer closing manifold that controls casing rams to indicate casing rams instead of drill pipe rams.

22. Record test and ram changes in drilling report.

C. WEEKLY TEST PROCEDURE FOR INSTALLATIONS AS SHOWN ON FIGURE 7 - TWO RAM UNITS

Preparations for Test Steps 1-10

1. Inspect all flanges to see if all bolts are in place and tight.

2. Check all opening and closing lines to preventers to see if they are correctly placed, hooked up, and tight.

C. WEEKLY TEST PROCEDURE FOR INSTALLATIONS AS SHOWN ON FIGURE 7 - TWO RAM UNITS (contd.)

3. Remove kill line and install test line in flange outside of second valve on the kill line side of the drilling spool.

4. Open valves on bradenhead and wash inside of preventers with water from the top. No lines are to be connected to the bradenhead at this time.

5. Run test plug in on a joint of drill pipe and set in seat.

6. Install safety valve and kelly on top of drill pipe.

7. Fill preventers with water.

8. Open all valves on choke lines and check to see that water is flowing through each choke line and full opening line. Let run until it clears up.

9. Close all outside valves on choke line, making sure they are full of water and do not have air trapped in them.

10. Refill preventers if necessary.

BOP Stack and Kelly Cock Test Steps 11-17

11. Close pipe rams (or Hydril, if used in place of upper ram type preventer).

12. Check closing line and preventer for leaks.

13. Open stand pipe valve, kelly cock, and safety valve, and fill kelly with water.

14. Close kelly cock.

15. If Hydril is used, reduce closing pressure to that listed on page 56. This may be increased as required up to a maximum of 1,500 psi.

16. Pressure up to 1/2 working pressure of preventers. For maximum Hydril packing unit life, as the test pressure builds up, reduce the closing pressure and later apply opening pressure per applicable schedule starting on page 57, provided a schedule is listed for the Hydril in use. Hold test pressure for 10 minutes.

Safety Valve Test Steps 18-24

17. Check for leaks.

18. Close safety valve and open kelly cock.

19. Check safety valve for leaks.

C. WEEKLY TEST PROCEDURE FOR INSTALLATIONS AS SHOWN ON FIGURE 7 - RAM UNITS (Contd.)

20. Release pressure.

21. Open pipe rams (or Hydril)

22. Pull plug out of hole.

23. Close bradenhead valves.

24. Record test on drilling report.

BLOWOUT PREVENTER TESTING PROCEDURE

A. INITIAL INSTALLATION TEST FOR INSTALLATIONS AS SHOWN ON FIGURE NO. 8 TWO RAM UNITS - LOW SUBSTRUCTURE

After all blowout preventers, choke lines, valves, bell nipples, and flow lines are rigged up, the following steps are to be carried out with no exceptions:

Preparations Steps 1-10

1. Inspect all flanges to see if all bolts are in place and tight.
2. Check all opening and closing lines to preventers to see if they are correctly placed, hooked up, and tight.
3. Check to see that all control valves are properly marked.
4. Remove kill line and open all valves on bradenhead.
5. Open all valves on choke manifold and wash inside of preventers with water from the top. Check to see that water is flowing through each choke line and kill line.
6. Close outside valves on kill line side and on choke lines.
7. Install test line in flange on outside of second valve on kill line side of bradenhead.
8. Fill preventers.
9. Open outside valve on kill line side and pump through test line until all air is purged.
10. Close inside valve on kill line side.

Kill Line Outlet Valves Test Steps 10-16

11. Pressure up to working pressure of preventers. Hold for one minute.
12. Check for leaks.

RU 1-B

FORM 31-B

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF WATER RIGHTS

DEE C. HANSEN
STATE ENGINEER

JOHN BENE
DEPUTY

442 STATE CAPITOL
SALT LAKE CITY, UTAH 84114
(801) 328-6071

DIRECTING ENGINEERS
HAROLD D. DONALDSON
DONALD C. NORSETH
~~XXXXXXXXXXXXXX~~
Stanley Green

May 28, 1974

Petroleum Unit W. S. Wells

Phillips Petroleum Company
Box 2920
Casper, Wyoming 82601

Gentlemen:

RE: Change Appl. No. a-7804 (09-281)

Enclosed is Change Application No. a-7804 (09-281) which has been approved. The approved change application is amendatory and serves only to affect a correction to Application No. 32773 a-4025 on which an election to file a water user's claim has been submitted.

As soon as possible, engineers of this office will make the necessary field investigations and will prepare a water user's claim which will be entered in the adjudication of water rights in your area.

Yours truly,

Dee C. Hansen

Dee C. Hansen
State Engineer

jb

Enc.: Copy of Approved Application

PHILLIPS PETROLEUM CO.
CASPER AREA
E & P DEPT.
Recd: JUN 3 1974

Send To	Init.	Hold
Supt.		
Oper. Supt.		
Dist. Engr.		
Dist. Mgr.		
Engr.		
Clerk		
Stenos		
Send Copy To		

CHANGE APPLICATION APPROVED

(Form for Pending Original Application)

Aneth Basin 09-2-81

Form No. 107 3-66

CHANGE APPLICATION NO. a-7504

Application for Permanent Change of Point of Diversion Place and Nature of Use of Water

STATE OF UTAH

Please clearly and correctly complete the information requested below which defines the right or rights being changed. (Type or clearly print.)

For the purpose of obtaining permission to permanently change: the point of diversion [X], place [ ], or nature of use [ ], of water rights acquired by Application No. 32773 (09-281)
(Give Number of Application, certificate of appropriation, title and date of Decree or other identification of right.)

If the right described has been amended by a previous approved change application, give the number of such change application. No. a-4025

1. The name of the applicant is Phillips Petroleum Company
2. The post-office address of the applicant is Box 2920, Casper, Wyoming 82601
3. The flow of water which has been or was to have been used in second-feet is 8.0
4. The quantity of water which has been or was to have been used in acre-feet is
5. The water has been or was to have been used for and during periods as follows:

		from (month)	(day)	to (month)	(day)	incl.
Oil Field Pressure Maintenance and	(purpose)					
Secondary Recovery Uses	(purpose)	January 1		December 31		
and stored each year (if stored)						

6. The direct source of supply is 41 Wells in San Juan County.
(well, spring, stream, drain, river; if other explain)
7. The point or points of diversion See Separate Sheet

(Must be the same as that of right being changed unless a previous change has been filed and approved. Then use the point or points approved in the previous change.)

8. Diversion works:
If a well give diameter and depth 12 3/4" diameter wells, 35-50 ft. deep
If a dam and reservoir give height, capacity, and area inundated
If other give type of diversion facility
9. The water involved has been or was to have been used for the following purposes in the following described legal subdivisions: (If used for irrigation, state sole or supplemental supply, and describe other supplemental rights.)
Irrigation
Total acres to be irrigated
Stockwatering (number and kind)
Domestic (number of families and/or persons, etc.)
Other See Separate Sheet
10. The point at which water has been or was to have been returned to the stream channel is situated as follows: (Please describe method of return.)

Note: Paragraph 10 is to be completed only when all or part of the water is returned to the natural stream or channel.

The Following Changes Are Proposed

11. The flow of water to be changed in cubic feet per second is Same as heretofore
12. The quantity of water to be changed in acre-feet is

13. The water will be used each year for:

Same as heretofore from ____ to ____ incl.
(purpose) (month) (day) (month) (day)

____ from ____ to ____ incl.
(purpose) (month) (day) (month) (day)

and stored each year (if stored) from ____ to ____ incl.
(month) (day) (month) (day)

14. It is now proposed to divert the water from 23 Wells
(i.e., spring, spring area, stream, river, drain, well, etc.)

at a point(s) as follows: See Separate Sheet

NOTE: The "point of diversion," or "point of return," must be located by course and distance or by rectangular distances with reference to some regularly established United States land corner or United States mineral monument if within a distance of six miles of either, or if a greater distance to some prominent and permanent natural object. A spring area must also be described by metes and bounds.

15. The proposed diverting and conveying works will consist of: (if a well, state diameter and depth thereof)
20 - 16-inch diameter wells, 35-50 ft. deep

16. If water is to be stored, give capacity of reservoir in acre-feet ____ height of dam ____
area inundated in acres ____ legal subdivisions of area inundated ____

17. The water is to be used for the following purposes in the following described legal subdivisions: (if used for irrigation, state sole or supplemental supply, and describe other supplemental rights.)

Irrigation ____

Total acres to be irrigated ____

but limited to the sole irrigation supply of ____ acres.

Stockwatering (number and kind) ____

Domestic (number of families and/or persons, etc.) ____

Other Same as heretofore

18. If paragraphs 11 and 12 designate that only part of the right described in paragraphs 1 to 10 inclusive is to be changed, designate the status of the water so affected by this change as to its being abandoned or used as heretofore.

EXPLANATORY

The following additional facts are set forth in order to define more clearly and completely the full purpose of the proposed change: This is an Amendatory Change Application filed to correct the location of the points of diversion.

RECEIVED
MAR 8 1974
STATE ENGINEER
PRICE, UTAH

The undersigned hereby acknowledges that even though he may have been assisted in the preparation of the above-numbered application through the courtesy of the employees of the State Engineer's Office, all responsibility for the accuracy of the information contained therein, at the time of filing, rests with the applicant.

Ernest L. Morgan
Signature of Applicant

PHILLIPS PETROLEUM COMPANY

Change Application [illegible] 12772 (09-291) [illegible]

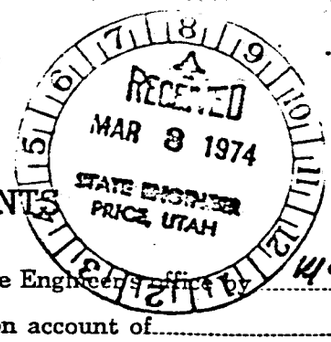
Item 7 - Points of Diversion

Well No.	Well Location	Well No.	Well Location
1	S. 1000 ft. & W. 150 ft.	22	S. 1550 ft. & E. 1850 ft.
2	S. 1000 ft. & W. 450 ft.	all from NW Cor. Sec. 3, T41S, R24E.	
3	S. 1000 ft. & W. 750 ft.	23	S. 960 ft. & E. 150 ft.
4	S. 1000 ft. & W. 1050 ft.	24	S. 950 ft. & E. 450 ft.
5	S. 1000 ft. & W. 1350 ft.	25	S. 925 ft. & E. 750 ft.
6	S. 1000 ft. & W. 1650 ft.	26	S. 910 ft. & E. 1050 ft.
7	S. 1000 ft. & W. [illegible] ft.	27	[illegible]
8	S. 1000 ft. & W. 2250 ft.	28	S. 890 ft. & E. 1650 ft.
9	S. 1000 ft. & W. 2550 ft.	29	S. 850 ft. & E. 1950 ft.
10	S. 1000 ft. & W. 2850 ft.	30	S. 825 ft. & E. 2250 ft.
11	S. 900 ft. & W. 3125 ft.	31	S. 895 ft. & E. 2540 ft.
~~12~~	~~S. 800 ft. & W. 3400 ft.~~	~~32~~	~~S. 1000 ft. & E. 2790 ft.~~ DELETE FC
13	S. 700 ft. & W. 3700 ft.	33	S. 1210 ft. & E. 3000 ft.
14	S. 610 ft. & W. 3995 ft.	34	S. 1420 ft. & E. 3200 ft.
15	S. 500 ft. & W. 4280 ft.	35	S. 1620 ft. & E. 3410 ft.
all from NE Cor. Sec. 5, T41S, R24E		36	S. 1710 ft. & E. 3710 ft.
16	S. 1700 ft. & E. 50 ft.	37	S. 1760 ft. & E. 4000 ft.
17	S. 1675 ft. & E. 350 ft.	38	S. 1800 ft. & E. 4300 ft.
18	S. 1650 ft. & E. 650 ft.	39	S. 1780 ft. & E. 4600 ft.
19	S. 1610 ft. & E. 950 ft.	40	S. 1740 ft. & E. 4900 ft.
20	S. 1590 ft. & E. 1250 ft.	41	S. 1720 ft. & E. 5200 ft.
21	S. 1575 ft. & E. 1550 ft.	all from NW Cor. Sec. 4, T41S, R24E.	

Item 9 - Place of Use: Ratherford Unit Greater Aneth Oil Field; S½ Sec. 1; SE¼ Sec. 2; E½ Sec. 11; Sec. 12; Sec. 13; E½ Sec. 14; NE¼ Sec. 24, T41S, R23E, SLB&M. Secs. 3-10; W½ Sec. 11; W½ Sec. 14; Secs. 15-21; NW¼ & W½SW¼ Sec. 22; W½NE¼, NW¼, W½SW¼ Sec. 28; Secs. 29-30; N½ Sec. 31; N½ Sec. 32, T41S, R24E, SLB&M.

Item 14 - New Points of Diversion

Well No.	Location	
1	S. 950 ft. & W. 148 ft. from NE Cor. Sec. 5, T41S, R24E, SLB&M.	(D-41-24)5aad
2	S. 1014 ft. & W. 442 ft. from NE Cor. Sec. 5, T41S, R24E, SLB&M.	(D-41-24)5aad
3	S. 1007 ft. & W. 741 ft. from NE Cor. Sec. 5, T41S, R24E, SLB&M.	(D-41-24)5aac
4	S. 1010 ft. & W. 592 ft. from NE Cor. Sec. 5, T41S, R24E, SLB&M.	(D-41-24)5aad
5	S. 982 ft. & W. 294 ft. from NE Cor. Sec. 5, T41S, R24E, SLB&M.	(D-41-24)5aad
6	S. 887 ft. & W. 2 ft. from NE Cor. Sec. 5, T41S, R24E, SLB&M.	(D-41-24)5aad
(D-41-24)4bbc 7	S. 863 ft. & E. 145 ft. from NW Cor. Sec. 4, T41S, R24E, SLB&M.	~~(D-41-24)5aad~~
(D-41-24)4bbc 8	S. 843 ft. & E. 293 ft. from NW Cor. Sec. 4, T41S, R24E, SLB&M.	~~(D-41-24)5aad~~
(D-41-24)4bbd 9	S. 818 ft. & E. 440 ft. from NW Cor. Sec. 4, T41S, R24E, SLB&M.	~~(D-41-24)5aad~~
10	S. 803 ft. & E. 590 ft. from NW Cor. Sec. 4, T41S, R24E, SLB&M.	~~(D-41-24)5aad~~
11	S. 789 ft. & E. 739 ft. from NW Cor. Sec. 4, T41S, R24E, SLB&M.	~~(D-41-24)5aac~~
~~12~~	~~S. 777 ft. & E. 939 ft. from NW Cor. Sec. 4, T41S, R24E, SLB&M.~~	DELETE FCM
13	S. 803 ft. & E. 1137 ft. from NW Cor. Sec. 4, T41S, R24E, SLB&M.	~~(D-41-24)5~~
14	S. 802 ft. & E. 1334 ft. from NW Cor. Sec. 4, T41S, R24E, SLB&M.	
15	S. 759 ft. & E. 1529 ft. from NW Cor. Sec. 4, T41S, R24E, SLB&M.	
16	S. 715 ft. & E. 1725 ft. from NW Cor. Sec. 4, T41S, R24E, SLB&M.	
17	S. 672 ft. & E. 1920 ft. from NW Cor. Sec. 4, T41S, R24E, SLB&M.	
18	NO WELL	
19	S. 1792 ft. & W. 352 ft. from NE Cor. Sec. 4, T41S, R24E, SLB&M.	
20	S. 1792 ft. & W. 952 ft. from NE Cor. Sec. 4, T41S, R24E, SLB&M.	
21	NO WELL	
22	S. 1792 ft. & W. 652 ft. from NE Cor. Sec. 4, T41S, R24E, SLB&M.	
23	S. 1714 ft. & W. 1545 ft. from NE Cor. Sec. 4, T41S, R24E, SLB&M.	



(This page not to be filled in by applicant)

STATE ENGINEER'S ENDORSEMENTS

1. MAR. 8, 1974 Change Application received ~~over counter~~ by mail in State Engineer's office by WCK
2. ..... Priority of right to make change brought down to, on account of .....
3. Mar 13 1974 Fee for filing Application $65.00, received by ~~WCK~~, Receipt No 22906
4. March 13, 1974 Application microfilmed by ..... Roll No. 709 and indexed by ~~WCK~~
5. 4/16/74 Application platted by WO See following page for location
6. MAR. 8, 1974 Application examined by WCK
7. ..... Application returned, with letter, to ..... for correction
8. ..... Corrected application resubmitted over counter by mail to State Engineer's Office .....
9. MAR. 8, 1974 Application approved for advertisement by WCK
10. MAR 28 1974 Notice to water users prepared by dpht SG
11. APR 4 1974 Publication began, was completed APR 18 1974
12. APR 3 1974 Notice published in San Juan Record
13. ..... Proof slips checked by dpht & pd
14. NOV. 16, 1971 Change Application protested by April 24, 1974 Protest paid rec. # 1-144 Fd
15. MAY 20, 1974 Field Examined by WCK & LG
16. 5-28-74 Application designated for approval ~~rejection~~ by WCK SG
17. 5-28-74 Change Application copied jb proofread by .....
18. ..... Change Application approved ~~rejected~~ and returned to applicant .....

This application is approved on the following conditions:

1. Actual construction work necessitated by proposed change shall be diligently prosecuted to completion.
2. Proof of hange shall be submitted to the State Engineer's office by under 32773
3. This change is subject to all conditions imposed on the approval of the original application or right

Dee C. Hansen

Dee C. Hansen, State Engineer

18. ..... Time for making proof of change extended to .....
19. ..... Proof of change submitted.
20. ..... Certificate of change No. ....., issued.

I hereby certify that the foregoing is a true copy of the Application by ..... to change the point of diversion, place and nature of use of water as shown, with endorsements thereon, on the records of my office on the date given below.

Salt Lake City, Utah ....., 19.... .....

State Engineer

Change Application No. a-7804

J. P. Denny

December 23, 1970

Mr. Kenward H. McKinney, Area Engineer
State of Utah
Department of Natural Resources
6 East Main
Price, Utah 84501

Dear Mr. McKinney:

Enclosed is a completed and notarized State of Utah Form No. 152, "Election to File Water User's Claim" for water placed in beneficial use by Phillips Petroleum Company in the Ratherford Unit, San Juan County, Utah.

Very truly yours,

H. W. Patterson
Production Director
Western District

CML:rc
Attachment

bcc: Mr. J. P. Denny (2)

INTER-OFFICE CORRESPONDENCE / SUBJECT:
Denver Legal Department

Ratherford Unit
San Juan County, Utah
Application No. 32773
Proof of Appropriation

December 2, 1970

Mr. H. W. Patterson
Denver District Office

This is in answer to your inquiry of November 20, 1970, regarding the filing of an Election to File Water Users Claim in lieu of a Proof of Appropriation in the above matter. It is my opinion that we should elect to file the Election to File Water Users Claim.

An investigation of the pertinent Utah Statutes discloses that there is no difference between the legal effect of the two procedures. The election procedure is judicial in nature and results in a court order stating precisely our rights regarding use of the water. The decision is based upon the recommendation of the State Engineer, who has the responsibility for surveying, etc. if it is necessary. In short, we will get the same benefit at little or no expense.

Thomas M. Blume

Thomas M. Blume

TMB/cjk

Ratherford Unit
San Juan County, Utah
Application No. 32773
Proof of Appropriation

1300 Security Life Building
Denver, Colorado 80202

November 20, 1970

Mr. T. M. Blume
Division Chief Attorney
Denver Legal Department

Attached is a file pertaining to Phillips Petroleum Company's application for permanent use of water from underground and subsurface flow of the San Juan River in Utah for the beneficial use of pressure maintenance and secondary recovery in the Ratherford Unit.

I would like to direct your attention to Mr. C. H. Boles' letter of November 23, 1965, for background information.

On June 16, 1966, the Utah State Engineer granted a five-year extension to our Application No. 32773 for submittal of Proof of Appropriation. This extension will have elapsed on February 28, 1971.

We are preparing to file the Proof of Appropriation, however, the Casper office has information from the Area Engineer, Division of Water Rights, Department of Natural Resources, State of Utah that the filing of Proof of Appropriation is not necessary, but that filing of an Election to File Water Users Claim is necessary for permanent use of water from subsurface flow of the San Juan River.

We will appreciate your opinion on this filing.

H. W. Patterson

CHL:rc
Attachment

cc: Mr. T. A. Matthews

A T T E N T I O N

THIS FORM IS TO BE USED ONLY WHEN WATER HAS BEEN PLACED TO FULL BENEFICIAL USE

Form 152

BEFORE THE STATE ENGINEER OF THE STATE OF UTAH

ELECTION TO FILE WATER USER'S CLAIM

APPLICATION NO. 32773(09-281)

STATE OF ~~UTAH~~ Utah)
) ss.
COUNTY OF San Juan)

Phillips Petroleum Company, being first duly sworn, says that he is the owner of the above application; that the development contemplated under this application has been completed and the water placed to beneficial use.

In lieu of submitting "Proof of Appropriation" or "Proof of Change" and receiving "Certificate of Appropriation" or "Certificate of Change", the applicant hereby elects to file a "Statement of Water User's Claim" or an "Amended Statement of Water User's Claim" in the pending GENERAL DETERMINATION OF WATER RIGHTS; and that the applicant requests that said statement be prepared by the State Engineer and submitted for execution at an early date.

Phillips Petroleum Company
By: H. A. Kuehnert
Attorney-in-Fact

H. A. Kuehnert
APPLICANT

ROC

Subscribed and sworn to before me this 21st day of April, 19 77.

[illegible]
NOTARY PUBLIC

My commission expires: 5-16-[illegible]

Copies

December 2, 1965

Ratherford Unit, San Juan County, Utah -
Application No. 32773 - Request for Extension
of Time to Make Proof of Appropriation

Mr. R. M. Williams (2)
Legal Department

Phillips' Application No. 32773 to the State of Utah for appropriation of water to be used in the Ratherford Unit project was approved on September 5, 1961. One condition of the approval was that a proof of appropriation be submitted by February 28, 1963. Subsequently an extension was granted and the proof of appropriation is now due on February 28, 1966. It is not possible to determine at this time the quantity of water that will ultimately be required and this is to request your assistance in obtaining an additional extension of time before it is necessary to file the proof.

Attached is a copy of Mr. C. M. Boles' letter dated November 23, 1965, which transmits a copy of an unexecuted application for an extension of time for filing the proof from February 28, 1966, to February 28, 1971. Please examine the application as to form and, if it is acceptable, forward it to Mr. J. E. Chrisman, who will arrange for its execution. If it is your opinion that the legal firm of Senior and Senior should file the application, as was done previously, please so advise and the executed application will be returned to you.

Shofner Smith

JEC:gm
Attach.

cc: Messrs. C. W. Corbett
Attn. T. L. Osborne
C. M. Boles

12/8/65

FORM 32 SM 8-57

Copied for
C. M. Boles
4-18-62 EFL:mll

THE STATE OF UTAH
OFFICE OF THE STATE ENGINEER
SALT LAKE CITY

March 26, 1962

Phillips Petroleum Company
Bartlesville,
Oklahoma

Gentlemen: RE: APPROVED APPLICATION NO. a-4025

Enclosed find Application No. a-4025 which has been approved by me. This approved Application is your authority to proceed with actual construction work which, under Sections 73-3-10 and 73-3-12, Utah Code Annotated 1953, as amended, must be diligently prosecuted to completion. The water shall be put to beneficial use and proof of appropriation filed with the State Engineer, as provided in the original application as amended by this approved change Application.

Failure on your part to comply with the requirements of the statutes may result in forfeiture of your Application.

Yours truly,
Wayne D. Criddle
Wayne D. Criddle
STATE ENGINEER

ADDRESS ALL COMMUNICATIONS TO:
403 STATE CAPITOL
SALT LAKE CITY, UTAH

js
Encl: Copy of approved application

CHANGE APPLICATION APPROVED

(Form for pending original Application)

Copied for
C. M. Boles
11-3-61 SS:mll

THE STATE OF UTAH

OFFICE OF STATE ENGINEER

WAYNE D. CRIDDLE
STATE ENGINEER

SALT LAKE CITY
October 30, 1961

Issue Date: October 30, 1
Expiration Date: April 30

Phillips Petroleum Company
c/o Senior and Senior, Attorneys
#10 Exchange Place
Salt Lake City 11, Utah

Gentlemen:

RE: APPROVED APPLICATION NO. 32773 AND
CHANGE APPLICATION NO. a-4025

This is to acknowledge receipt of your Permanent Change Application No. a-4025, which proposes to change the point of diversion of 8.0 sec.-ft. of water initiated by Application No. 32773. The was to have been diverted from ten 12.75-inch O.D. wells located within S½N½NE¼ and SE¼NE¼NW¼ of Sec. 5, T41S, R24E, SLB&M. It is now proposed to divert the 8.0 sec.-ft. of water from a total of 41 wells 12.75 inches O.D, between 35 and 50 ft. deep, ten of these being the same as heretofore described and thirty-one wells to be located within NW¼ Sec. 3, N½ Sec. 4, NW¼ Sec. 5, T41S, R24E, SLB&M. The water is to be used for pressure maintenance and secondary recovery purposes as heretofore.

You have requested permission to proceed immediately with the drilling of these additional 31 wells. This letter grants you that privilege with the understanding that all risks as regards water rights are being assumed by you.

If other than new standard casing is to be used in these wells such casing must be inspected and approved by a representative from this office. All wells must be so constructed and finished that they may be readily controlled at all times, in order to prevent waste of underground water. Wells must be drilled and cased in such a manner that will prevent the infiltration of contaminated water into them.

The driller must be bonded and have a current permit from the State Engineer. Before commencing, he must give this office notice as to the day he will begin drilling. Also, within 30 days after the well has been completed or abandoned, he must file a well driller's report for each well. These reports are to contain accurate and complete information regarding the work done and become part of the files in this office pertaining to the above-numbered filings.

This is permission for a licensed driller to begin drilling your wells.

Please note that the expiration date of this letter is April 30, 1962.

Yours truly,

Wayne D. Criddle
Wayne D. Criddle
STATE ENGINEER

ds

RECEIVED
1961
SENIOR

Lewis ~~[illegible]~~ file/ss

October 13, 1961

AIRMAIL

Mr. Clair M. Senior
Senior & Senior
Attorneys at Law
10 Exchange Place
Salt Lake City, Utah

Re: Alternate or Additional Source of Water for the Ratherford Unit, San Juan County, Utah

Dear Clair:

Herewith in triplicate is completed and signed application to the Utah State Engineer for additional and alternate points of diversion for water for waterflood purposes in the Ratherford Unit. I would appreciate it if you would handle this matter with the Water Engineer and, as diplomatically as possible, urge upon him the importance of expediting the matter as much as possible.

Having gotten these papers back from the Production Department too late to get a check for the filing fee, I would ask that you advance the fee and, upon being billed, I will send you the check.

If you need any additional information, please advise.

Very truly yours,

R. M. Williams

RMW:jd
Enclosures

cc - Mr. Shofner Smith

2-17-8-4-4

3 copies Thru Clair Senior 10-13-67 Pat Miller

Form 107—6-57—2M

SCOPENSE Legal

CHANGE APPLICATION NO.

Application for Permanent Change of Point of Diversion, Place and Nature of Use of Water

STATE OF UTAH

Do not fill out this blank until you have read carefully and thoroughly understand the "Rules and Regulations" on the back hereof and all the notes in the body of it.

For the purpose of obtaining permission to permanently change the point of diversion, ~~*place or nature of use*~~ *of* (Strike out written matter not needed) *water right acquired by* original Application No. 32773 (Give No. of Application, certificate of appropriation, title and date of Decree or other identification of right) *to that hereinafter described, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.*

1. *The name of the applicant is* Phillips Petroleum Company
2. *The post-office address of the applicant is* Bartlesville, Oklahoma
3. †*The flow of water which* ~~*has been or*~~ *was to have been used in second-feet is* 8
4. †*The quantity of water which has been or was to have been used in acre-feet is* XX
5. †*The water* ~~*has been or*~~ *was to have been used each year from* January 1 (Month) (Day) *to* December 31 (Month) (Day) *incl.*
6. †*The water has been or was to have been stored each year from* XX (Month) (Day) *to* XX (Month) (Day) *incl.*
7. *The drainage area to which source of supply belongs is* (Leave blank)
8. *The direct source of supply is* Underground water and subsurface flow of San Juan River *in* San Juan *County.*
9. †*The point*s *of diversion as described in the original Application* ~~*or the point at which the water has been diverted is*~~ are *situated at* ~~*a*~~ *point*s in Section 5, T. 41S., R. 24E as more particularly set out in the original Application No. 32773.
10. †*The water involved* ~~*has been or*~~ *was to have been used for the following purposes:* Pressure maintenance and secondary recovery purposes

Total XX *Acres.*

NOTE—If for irrigation, give legal subdivision of land and total acreage which has been or was to have been irrigated. If for other purposes, give nature, place and extent of use or proposed use.

11. †*The point at which water has been or was to have been returned to the stream channel is situated as follows:* XX

NOTE—The above space is to be filled in only when all or part of the water is returned to the natural stream or channel.

The Following Changes Are Proposed

12. *The flow of water to be changed in cubic feet per second is* No change
13. *The quantity of water to be changed in acre-feet is* XX
14. *The water will be used each year from* January (Month) 1 (Day) *to* December (Month) 31 (Day) *incl.*
15. *The water will be stored each year from* XX (Month) (Day) *to* XX (Month) (Day) *incl.*
16. *The point at which it is now proposed to divert the water is situated (See note)* See explanatory

NOTE—The "point of diversion," or "point of return," must be located by course and distance or by rectangular distances with reference to some regularly established United States land corner or United States mineral monument if within a distance of six miles of either, or if a greater distance, to some prominent and permanent natural object.

17. *The proposed diverting and conveying works will consist of* wells and conveyance pipe as explained in original Application No. 32773
18. *The cross-section of the diverting channel will be.* XXXXXXXX O (Strike out ones not needed)
19. *The nature of the diverting channel will be:* ~~*earth, wood*~~, *iron,* ~~*concrete*~~. (Strike out the ones not needed)

†Strike out written matter not needed.

RECEIVED
WAYNE D. CRIDDLE
STATE ENGINEER
PRODUCTION DEPARTMENT

THE STATE OF UTAH
OFFICE OF STATE ENGINEER
SALT LAKE CITY

September 11, 1961

Phillips Petroleum Company
Bartlesville,
Oklahoma

Gentlemen: RE: APPROVED APPLICATION NO. 32773

Enclosed find Approved Application No. 32773. This is your authority to proceed with actual construction work which, under Sections 73-3-10 and 73-3-12, Utah Code Annotated, 1953, as amended, must be diligently prosecuted to completion. The water shall be put to beneficial use and proof of appropriation made to the State Engineer on or before ------------February 28, 1961------otherwise the application will lapse.

Failure on your part to comply with the requirements of the statutes may result in forfeiture of this application.

Note error in date
EH 9/15/61

Yours truly,

Wayne D. Criddle

ADDRESS ALL COMMUNICATIONS TO:

Wayne D. Criddle
STATE ENGINEER
STATE CAPITOL BUILDING
SALT LAKE CITY, UTAH

js
Encl: Copyof approved application

APPLICATION APPROVED

NOTICE TO APPLICANT

The approval of this Application is not a certificate of change. It is merely your authority to begin construction work, which must be diligently prosecuted to completion. To secure a certificate of change under this Application proof of change must be submitted within the time limit allowed by the State Engineer. The amount of water for which certificate will be issued will depend upon the amount of water actually put to a beneficial use, not to exceed, however, the amount of water covered by the original right. For further information write the State Engineer.

RULES AND REGULATIONS

Applicants will save time and expense by familiarizing themselves with the law before making Applications.

If the reservoir is to be located on the channel of the source from which the water is to be appropriated, it should be so stated under explanatory, and—

1. The location of the impounding dam should be described in Paragraph 16.
2. The point where the released storage will be rediverted from the natural stream should be described under explanatory in accordance with the note under Paragraph 16.

When the water is to be stored in other than the natural channel of the source from which it is to be appropriated, it should be so stated under explanatory, and—

1. The point of diversion from the supplying source should be described in Paragraph 16.
2. The intersection of the longitudinal axis of impounding dam and centerline of stream channel or drainage and a similar point where the released storage will be rediverted from a natural channel should be described under explanatory in accordance with the note under Paragraph 16.

In all cases Paragraphs 17 to 27, incl., should describe the proposed diverting and carrying works, exclusive of natural channels, even if already constructed in whole or in part.

If it is proposed to collect the water of a number of springs or other sources at a common point, said point should be described as the point of collection in Paragraph 16, and the point of diversion from each source should also be described under explanatory in accordance with the note in Paragraph 16. The quantity of water sought from each source should be indicated under explanatory, the total equaling the quantity specified in Paragraphs 12 or 13. Where the source of supply is in reality a spring area, the point of diversion is the point where the water is collected; in such case the exterior boundary of the spring area must be described under explanatory by metes and bounds and located with reference to the same point as used in describing the point of collection and as outlined by the note under Paragraph 16.

No enlargement of an original water right may be made by a change Application, either as to quantity of water covered, period of use or otherwise.

When there are two or more coapplicants the Application must be accompanied by a power of attorney.

The applicant's permanent address should be given in Paragraph 2, and the State Engineer notified promptly of any change in address; otherwise applicant may lose rights initiated by Application by failing to receive notices sent from the State Engineer's office.

No Application or other paper pertaining to an Application will be marked received unless accompanied with the required filing fee.

Applications accepted and numbered by the State Engineer, when returned to applicant for correction or additions, must be amended with red ink. Erasures must not be made, but any matter may be eliminated by running a red line through it. Corrected Applications must be resubmitted to the State Engineer's office, within sixty days from the date of State Engineer's letter returning Application for correction; otherwise the priority of the right to change will be brought down to date corrected Application is resubmitted.

Applicants will be informed by the State Engineer's office when cost of publishing notice of Application is due, and must advance cost within sixty days after date of notice, otherwise Application will lapse.

Fees Required by Law Payable to State Engineer

For examining and filing Applications for change of point of diversion, place and nature of use.....$2.50

For approving and recording Applications for change of point of diversion, place and nature of use.....$2.50

For filing written proof of change.....$1.00

For examining maps, profiles and drawings that are part of the proof of change.....$5.00

For issuing certificate of change.....$1.00

NOTE—In addition to the above fees applicants must pay the cost of publication of "Notice to Water Users" concerning the proposed change.

20. *The length of the diverting channel, exclusive of laterals, will be* 15,000 *feet*
(If an existing channel is used give only the length of that part used under this Application)

21. *The top width of the diverting channel will be (if a ditch)* XX *feet*

22. *The bottom width of the diverting channel will be (if a ditch)* XX *feet*

23. *The depth of water in the diverting channel will be (if a ditch)* XX *feet*

24. *The width of diverting channel will be (if a flume)* XX *feet*

25. *The depth of water in the diverting channel will be (if a flume)* XX *feet*

26. *The diameter of the diverting channel will be (if a pipe)* 42.75 inches O.D. *inches*

27. *The grade of the diverting channel will be* 21.4 *feet per thousand*

28. *The point at which it is proposed to return the water is situated* (See note under 16)
XX

29. *The water is to be used* for the same purposes as specified in the original Application No. 32773

Total XX *acres.*

NOTE—If for irrigation, give legal subdivisions of land to be irrigated. If for other purposes, give place and extent of proposed use. If for power give number, size and make of wheels, head under which they will operate, total H. P. to be developed and place where power will be used.

30. *The character of the soil to be irrigated is* XX ; *subsoil* XX

NOTE—Number 30 is to be filled in only when proposed change is for irrigation.

31. *If paragraph 12 designates that only part of the right described in paragraph 1 to 11 inclusive is to be changed, designate the status of the water so affected by this change as to its being abandoned or used as heretofore.*

EXPLANATORY

NOTE—Paragraph 13 on page 1 must not be used except when storage is contemplated; in such case Paragraph 14 should indicate the time in each year during which the water will be released and used. The lands to be inundated by the reservoir must be described in the space below this note as nearly as may be and by government subdivisions if upon surveyed land, and the area of the reservoir when at full stage should be given in acres; the height of the impounding dam must also be specified.

The following additional facts are set forth in order to define more clearly the full purpose of the proposed change:

The original Application No. 32773 specified _____ points of diversion situate in Section 5, T. 41S., R. 24E., San Juan County, Utah, and bears the following notation: "Diversion will be from one or more or all of the above diversion points. Water from the several diversion points will be commingled in conveyance works or in use. The applicant proposes to divert water from the San Juan River partly or wholly by means of infiltration wells, pits or horizontal galleries, dug in the alluvial fill within the stream valley. The exact number, depth, diameter, spacing and yield of such wells, pits or galleries will be determined during the project construction; however, the aggregate withdrawal rate will not exceed that specified." The purpose of this Change Application is to secure approval of additional alternative points of diversion as hereinafter specified without waiver of any rights under the original Application and without increase in the quantity of water applied for or the ultimate objective and purpose of the original Application.

See "Explanatory" continued on attached sheet.

PHILLIPS PETROLEUM COMPANY

Signature of Applicant.

BY _____
Vice-President of Production

EXPLANATORY - contd. from printed form.

The additional alternative points of diversion from the source are in Section 3, T. 41S., R. 24E., San Juan County, Utah, situate at points as follows:

Diversion Point	From West Line	From North Line	Subdivision
1	100'	1780'	SW¼NW¼
2	365'	1780'	"
3	630'	1770'	"
4	900'	1620'	"
5	1170'	1620'	"
6	1400'	1600'	SE¼NW¼
7	1530'	1600'	"
8	1900'	1600'	"
9	2150'	1620'	"
10	2400'	1700'	"
11	2640'	1750'	"
12	2900'	1810'	SW¼NE¼
13	3180'	1900'	"
14	3400'	1950'	"
15	3650'	2050'	"
16	3870'	2225'	"
17	4100'	2450'	SE¼NE¼
18	4250'	2700'	NE¼SE¼
19	4380'	2975'	"
20	4420'	3250'	"

Form 97 6M 8-59 Application No. 32773

APPLICATION TO APPROPRIATE WATER
STATE OF UTAH

NOTE:—The information given in the following blanks should be free from explanatory matter, but when necessary, a complete supplementary statement should be made on the following page under the heading "Explanatory."

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, for uses indicated by (X) in the proper box or boxes, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

1. Irrigation ☐ Domestic ☐ Stockwatering ☐ Municipal ☐ Power ☐ Mining ☒ Other Uses ☐
2. The name of the applicant is PHILLIPS PETROLEUM COMPANY
3. The Post Office address of the applicant is Bartlesville, Oklahoma
4. The quantity of water to be appropriated is -- 8 -- second-feet or ..... acre-feet
5. The water is to be used for See Explanatory (Major Purpose) from January 1 (Month) (Day) to December 31 (Month) (Day)

   other use period ..... (Minor Purpose) from ..... (Month) (Day) to ..... (Month) (Day)

   and stored each year (if stored) from ..... (Month) (Day) to ..... (Month) (Day)
6. The drainage area to which the direct source of supply belongs is ..... (Leave Blank)
7. The direct source of supply is* Underground water and subsurface flow of San Juan River (Name of stream or other source)

   which is tributary to Colorado River ..... tributary to .....

*Note.—Where water is to be diverted from a well, a tunnel, or drain, the source should be designated as "Underground Water" in the first space and the remaining spaces should be left blank. If the source is a stream, a spring, a spring area, or a drain, so indicate in the first space, giving its name, if named, and in the remaining spaces, designate the stream channels to which it is tributary, even though the water may sink, evaporate, or be diverted before reaching said channels. If water from a spring flows in a natural surface channel before being diverted, the direct source should be designated as a stream and not a spring.

8. The point of diversion from the source is in San Juan County, situated at a point* ~~See Explanatory~~ #1-S.1000 ft. and W. 150 ft.; #2-S.1000 ft. and W. 450 ft.; #3-S.1000 ft. and W. 750 ft.; #4-S.1000 ft. and W. 1050 ft.; #5-S.1000 ft. and W. 1350 ft.; #6-S.1000 ft. and W. 1650 ft.; #7-S.1000 ft. and W. 1950 ft.; #8-S.1000 ft. and W. 2250 ft.; #9-S.1000 ft. and W. 2550 ft.; and #10-S.1000 ft. and W. 2850 ft.; all from NE Cor. Sec. 5, T41S, R24E. SLB&M. (See letter of 3-16-61 attached

*Note.—The point of diversion must be located definitely by course and distance or by giving the distances north or south, and east or west with reference to a United States land survey corner or United States mineral monument, if within a distance of six miles of either, or if at a greater distance, to some prominent and permanent natural object. No application will be received for filing in which the point of diversion is not defined definitely.

9. The diverting and carrying works will consist of See Explanatory .....
10. If water is to be stored, give capacity of reservoir in acre-feet ..... height of dam.....

    area inundated in acres ..... legal subdivision of area inundated .....
11. If application is for irrigation purposes, the legal subdivisions of the area irrigated are as follows:

    ..... Total ..... Acres
12. Is the land owned by the applicant? Yes..... No.....
13. Is this water to be used supplementally with other water rights? Yes..... No.....

    If "yes," identify other water rights under explanatory.
14. If application is for power purposes, describe type of plant, size and rated capacity.....
15. If application is for mining, the water will be used in Greater Aneth Area ~~in the~~ ~~oil field~~ ~~mining district~~, where the following ores are mined oil and gas
16. If application is for stockwatering purposes, number and kind of stock watered.....
17. If application is for domestic purposes, number of families to be served.....
18. If application is for municipal purposes, name of municipality .....
19. If application is for other uses, include general description of proposed uses.....
20. Give place of use by legal subdivision of the United States Land Survey for all uses described in paragraphs 14 to 19, incl. ~~See Explanatory~~.....
21. The use of water as set forth in this application will consume -- 8 -- second-feet of water and -- 0 -- second feet will be returned to the natural stream or source at a point described as follows:.....

EXPLANATORY

The following additional facts are set forth in order to define more clearly the full purpose of the proposed application:

ITEM 7

The water will be pumped from the diversion area to the oil field where the water will be injected under pressure through deep wells into the petroleum-bearing formations for pressure maintenance and secondary recovery purposes.

ITEM 8

The point or points of diversion from the source will be in Section 5, T41S, R24E SLM, San Juan County, situated as follows: From that point at which the south bank of the river channel intersects the east line of Section 5, T41S, R24E, to that point at which the South bank of river channel intersects the North line of Section 5, T41S, R24E.

Diversion will be from one or more wells or infiltration galleries to be drilled in the alluvial fill and to be located as close to the South bank of the river channel as is practical within the east-west limits as above defined. Specific location and number of diversion points will be determined by a hydrographic survey and/or producing characteristics of wells to be drilled. The aggregate withdrawal, the rate of which is not to exceed that specified in this application, will be commingled in a conveyance works described in greater detail herein.

ITEM 9

The diverting and carrying works will consist of 12-1/4" diameter wells, cased with 35 to 50 feet of 8-5/8 inch outside diameter pipe to be drilled to depths of from 35 feet to 50 feet and about 14,500 feet of 10-3/4 inch conveyance pipe to places of use.

ITEM 20

Township 41 South, Range 23 East, SLM

S/2 Sec. 1; SE/4 Sec. 2; E/2 Sec. 11; All Sec. 12; All Sec. 13, E/2 Sec. 14, NE/4 Sec. 24.

Township 41 South, Range 24 East, SLM

All Sections 3, 4, 5, 6, 7, 8, 9, 10; W/2 Sec. 11, W/2 Sec. 14; All Sections 15, 16, 17, 18, 19, 20, 21; NW/4, W/2 SW/4 Sec. 22; W/2 NE/4, NW/4, W/2 SW/4 Sec. 28; All Sections 29, 30; N/2 Sec. 31; N/2 Sec. 32.

Said described lands, which are in San Juan County, Utah, constitute the Ratherford portion of the Greater Aneth Area oil field.

Continued on page 4

(Use page 4 if additional explanatory is needed.)

The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purpose herein described.

PHILLIPS PETROLEUM COMPANY

By: L. E. Fitzgerald

Signature of Applicant*

VICE PRESIDENT OF PRODUCTION

*If applicant is a corporation or other organization, signature must be the name of such corporation or organization by its proper officer, or in the name of the partnership by one of the partners, and the names of the other partners shall be listed. If a corporation or partnership, the affidavit below need not be filled in. If there is more than one applicant, a power of attorney, authorizing one to act for all, should accompany the Application.

DECLARATION OF CITIZENSHIP

STATE OF UTAH,
County of..... } ss

On the ..... day of..... 19..... personally appeared before me, a notary public for the State of Utah, the above applicant who, on oath, declared that he is a citizen of the United States, or has declared his intention to become such a citizen.

My commission expires:

(SEAL)

Notary Public

FEES FOR APPLICATIONS TO APPROPRIATE WATER IN UTAH

Flow rate — c.f.s.	Cost	
0.0 to 0.1	$ 10.00	
over 0.1 to 0.5	20.00	
over 0.5 to 1.0	30.00	
over 1.0 to 15.0	30.00	plus $5/cfs above 1.00 cfs.
over 15.0	100.00	
Storage — acre-feet		
0 to 20	15.00	
over 20 to 500	30.00	
over 500 to 7500	30.00	plus $5/500 a. f. above first 500
over 7500	100.00	

(This section is not to be filled in by applicant)

STATE ENGINEER'S ENDORSEMENTS

11:00 a.m.

1. Feb. 27, 1961 Application received ~~over counter~~ by mail in State Engineer's office by [illegible]
2. ....Priority of Application brought down to, on account of............
3. Feb. 27, 1961 Application fee, $5.50, received by [illegible] Rec. No. 02365
4. Mar. 10, 1961 Application photostated book 7W32, page 357, and indexed by [illegible]
5. [illegible] Application platted by [illegible] (2)aad (3)aac-(4) aac-(5)abd-(6)abb-(7)abd( )abc( )abc( )( )bad
6. April 7, 1961 Application examined by MC
7. ....Application returned, ... or corrected by office............
8. ....Corrected Application resubmitted over counter / by mail to State Engineer's office.
9. April 7, 1961 Application approved for advertisement by MC
10. June 16, 1961 Notice to water users prepared by R.K.H.
11. June 29, 1961 Publication began; was completed July 13, 1961

    Notice published in San Juan Record, Monticello, Utah
12. June 27, 1961 Proof slips checked by J. S. & J.
13. ....Application protested by............

July 25, 1961 Publisher paid M.E.V. 22-1016 [illegible]

14. ....Hearing held by............
15. ....Field examination by............
16. Sept. 5, 1961 Application designated for approval ~~rejection~~ [illegible]
17. Sept. 11, 1961 Application copied or photostated by T.E. proofread by............
18. Sept. 11, 1961 Application approved ~~rejected~~
19. **Conditions:**

    This Application is approved, subject to prior rights, as follows:

    a. Actual construction work shall be diligently prosecuted to completion.

    b. Proof of Appropriation shall be submitted to the State Engineer's office by Feb. 28, 1963

    c. ....

Wayne D. Criddle
Wayne D. Criddle State Engineer.

20. ....Time for making Proof of Appropriation extended to............
21. ....Proof of Appropriation submitted.
22. ....Certificate of Appropriation, No............, issued

Application No. 32773

EXPLANATORY CONTINUED

The use of the applied for water for the planned pressure maintenance and secondary recovery operations will permit the recovery of substantial quantities of oil and gas which would otherwise not be recovered.

NOTICE TO APPLICANT

All waters in this state, whether above or under the ground, are the property of the public, subject to all existing rights to the use thereof. No appropriation of the unappropriated public water may be made and no rights to the use thereof shall be recognized except Application for such appropriation first be made to the State Engineer.

The approval of this Application is not a Certificate of Appropriation. It is merely your authority to begin construction work, which must be prosecuted diligently to completion. To secure a Certificate of Appropriation under this Application, Proof of Appropriation must be submitted within the time limit allowed by the State Engineer. The amount of water for which Certficate will be issued will depend upon the amount of water actually put to a beneficial use, not to exceed, however, the amount of water specified in this Application. Proof of Appropriation must be made in accordance with the requirements of the law. For further information write the State Engineer.

OPERATOR Phillips Petroleum DATE 9/7/83

WELL NAME Rutherford Unit 20-22

SEC SENW 20 T 41S R 24E COUNTY San Juan

43-037-30930
API NUMBER

Indian
TYPE OF LEASE

POSTING CHECK OFF:

☐ INDEX ☐ MAP ☐ HL

☐ NID ☐ ☐ PI

PROCESSING COMMENTS:

Unit Well

Water OK

✓

CHIEF PETROLEUM ENGINEER REVIEW:

✓9/7/83 Unit✓

APPROVAL LETTER:

SPACING: ☑ A-3 Rutherford Unit (UNIT) ☐ c-3-a _____ (CAUSE NO. & DATE)

☐ c-3-b ☐ c-3-c

SPECIAL LANGUAGE:

- [x] RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MAP.
- [x] AUTHENTICATE LEASE AND OPERATOR INFORMATION
- [x] VERIFY ADEQUATE AND PROPER BONDING
- [x] AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.
- [ ] APPLY SPACING CONSIDERATION
  - [ ] ORDER _____
  - [x] UNIT Rathbone Unit
  - [ ] c-3-b
  - [ ] c-3-c
- [x] CHECK DISTANCE TO NEAREST WELL.
- [x] CHECK OUTSTANDING OR OVERDUE REPORTS FOR OPERATOR'S OTHER WELLS.
- [x] IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER
- [x] IF IN OIL SHALE DESIGNATED AREA, SPECIAL APPROVAL LANGUAGE.

September 7, 1983

Phillips Petroleum Company
P. O. Box 2920
Casper, Wyoming 82602

RE: Well No. Ratherford Unit 20-22
SENW Sec. 20, T. 41 S, R. 24 E
2020' FNL, 2090' FWL
San Juan County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to oil well is hereby granted in accordance with Section 40-6-11, Utah Code Annotated 1953; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

RONALD J. FIRTH - Chief Petroleum Engineer
Office: 533-5771
Home: 571-6068

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (acquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-037-30930.

Sincerely,

R. J. Firth
Chief Petroleum Engineer

RJF/as
cc: Branch of Fluid Minerals (2)
BIA
Encl.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
(FORM 9-329)
(2/76)
OMB 42-R0 356

MONTHLY REPORT OF OPERATIONS

Lease No. 14-20-603-353
Communitization Agreement No. NA
Field Name Greater Aneth
Unit Name Ratherford Unit (SW-I-4192)
Participating Area Paradox
County San Juan State Utah
Operator Phillips Petroleum Company
☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of November, 1983

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & ¼ of ¼	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
20-22	Sec. 20 SE NW	41S	24E	DRG		INITIAL REPORT Present Operation as of December 1, 1983 - TD 1610'. WOC. MI & RU dry hole digger. Drld 18" hole to 134'. Ran 3 jts 13-3/8" csg set at 132.95'. Cmtd w/ 150 sx Class B. RD & MO dry hole digger. MI & RU Four Corners, Rig #8, 11/28/83. Spudded 12-1/4" surf hole at 3:00 pm, 11/28/83. Drld to 1610'. Ran 39 jts 9-5/8" 40# R3 K-55 8Rd set at 1610' RKB. Cmtd w/300 sx Class B w/20% Diacel D, 1/4#/sx Celloflake & 2% CaCl2. Followed by 300 sx Class B with 1/4#/sx Celloflake & 2% CaCl2. Tested to 1500 psi for 10 min, OK. Surveys - 3/4 deg at 932', 1-1/4 deg at 1256', 2 deg at 1572'.		

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
*On hand, Start of Month		XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX
*Produced			
*Sold			XXXXXXXXXXXXXXXX
*Spilled or Lost		XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXX
*Used on Lease			XXXXXXXXXXXXXXXX
*Injected			
*Surface Pits	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	
*Other (Identify)			
*On hand, End of Month		XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX
*API Gravity/BTU Content			XXXXXXXXXXXXXXXX

Authorized Signature: A. E. Stuart Address: P.O. Box 2920, Casper, WY 82602
Title: Area Manager

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
(FORM 9-329)
(2/76)
OMB 42-RO 356

MONTHLY REPORT OF OPERATIONS

Lease No. 14-20-603-353
Communitization Agreement No. NA
Field Name Greater Aneth
Unit Name Ratherford Unit (SW-I-4192)
Participating Area Paradox
County San Juan State Utah
Operator Phillips Petroleum Company
☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of December, 19 83

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & ¼ of ¼	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
20-22	Sec. 20 SE NW	41S	24E	DRG					

Present Operation as of January 1, 1984 - PBTD 5618'. Flwg on test.

WOC. Ran 75' of 1" in 9-5/8" x 13-3/8" annulus. Cmt w/63 sx Class B cmt. Weld on 9-5/8" csg head. Test to 1600 psi for 10 min. NU BOP's. Test to 300 psi and 3000 psi. WIH. Tag cmt at 1570'. Drld float collar, cmt, shoe and drld 8-3/4" hole to TD 5690' at 8:00 am, 12.10/83. Ran 141 jts 7" csg set at 5690'. Pmpd 10 bbls wtr ahead of 400 sx Class B cmt w/20% Diacel D, 10% salt and 10#/sx Kolite, followed w/300 sx Class B cmt w/3/4% D-59, 18% Salt & 1/4#/sx Cellulose Flake. Held 1500 psi press on csg for 10 min. Plug held. FC 5643.97', float shoe at 5690'. Released rig at 3:00 pm, 12/11/83. MI & RU Completion Unit 12/28/83. NU tbg spool. Press test to 2400 psi. NU & test BOP's. PU 6-1/8" bit & 7" scraper, 151 jts 2-7/8" tbg. Tagged cmt at 5618' PBTD. RU Gearhart. Ran CBL-VDL, GR from WL PBTD 5618-2600'. PU 4" Hollow Steel Carrier Perfg gun, 120 deg phasing, 23 gram charges. Perforated 5567-5582', 2 SPF, 31 holes. No pressure buildup. RD Gearhart. PU 4 jts tailpipe, Baker R3 pkr & 159 jts 2-7/8" tbg. RU Howco. Spot 500 gal 28% HCL FE Acid w/5 gal/1000 HC-2. Pmpd 2000 gal Acid w/48 - 1.3 SP Gravity Ball Sealers evenly spaced. Avg 2-3/4 bpm at 3000 psi. MP 3200 psi at 3-1/2 BPM. ISIP 2750 psi, 5 min 2300 psi, 10 min 2000 psi, 15 min 1800 psi. RD Howco. Flwd back well on 12/64", CK 1/1/84.

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
*On hand, Start of Month		XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX
*Produced			
*Sold			XXXXXXXXXXXXXXXX
*Spilled or Lost		XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXX
*Used on Lease			XXXXXXXXXXXXXXXX
*Injected			
*Surface Pits	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	
*Other (Identify)			
*On hand, End of Month		XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX
*API Gravity/BTU Content			XXXXXXXXXXXXXXXX

Authorized Signature: A. E. Stuart Address: P.O. Box 2920, Casper, WY 82602
Title: Area Manager

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form 9-329 Rev. Feb 76
OMB 42-R0356

MONTHLY REPORT
OF
OPERATIONS

Lease No. 14-20-603-353

Communitization Agreement No. NA
Field Name Greater Aneth
Unit Name Ratherford Unit (SW-I-4192)
Participating Area Paradox
County San Juan State Utah
Operator Phillips Petroleum Company

☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of December, 19 83

(See Reverse of Form for Instructions)

This report is required by Law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & ¼ of ¼	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
20-22	Sec. 20 SE NW	41S	24E	DRG			INITIAL REPORT		

Present Operation as of January 1, 1984 - PBTD 5786. WO Completion Unit. RU Dry Hole Digger. Drld 18" cond hole to 120'. Ran 4 jts 13-3/8" 54.5# K-55 csg. Land csg at 120'. Cmtd w/150 sx Class B. RD & MO Dry Hole Digger. MI & RU Four Corners Rig #8. Spudded well at 5:30 pm, 12/12/83. Drld 12-1/4" hole to 1602'. Ran 40 jts 9-5/8" K-55 LT&C 8Rd R3 csg (1609.33'), set at 1600'. Cmtd w/300 sx Class B w/20% Diacel D, 1/4#/sx Celloflakes, 2% CaCl2 and 6-1/4#/sx Kolite, 12.4 slurry, followed w/300 sx Class B w/2% CaCl2 and 1/4#/sx Celloflakes, 15.6 slurry. Bumped plug at 5:00 am, held 1500 psi for 10 min, OK. Float held. Circ 70 bbls cmt. Cmt dropped in annulus. WOC. Cut off 9-5/8" csg. ND Hydril. RU Dowell. Top off cmt w/100 sx Class B. Cmt did not fall. Welded on Bradenhead, tested weld to 1600 psi, OK. NU BOP's. Tested 300 psi low, 3000 psi, high, OK. WIH w/8-3/4" bit, tag cmt at 1563'. Tested csg to 1500 psi, OK. Drld FC, Shoe & Drld to TD 5786', 12/23/83. Ran logs - DIL-MSFL-CDL-CNL-GR. Loggers TD 5786'. Ran 7" csg as follows: 13 jts of 26# K-55, 22 jts 26# Butt K-55, 2 jts of 23# K-55, 111 jts of 23# K-55 LT&C. Pmpd 20 bbls chemical flush followed by 400 sk Class B cmt w/20% Diacel D, 10% salt, 1/4#/sx Cellulose Flakes & 10#/sx Kolite, followed by 300 sx Class B cmt w/3/4% D-59, 18% salt & 1/4#/sx Cellulose Flakes. Displd w/ 225 bbls wtr. Float wouldn't hold. Press to 1750 psi for 10 min. Cleaned cellar & set pipe on slips and in head. Rel rig 12/25/83. Now WO Completion Unit..

*If none, so state.

Disposition of production (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
*On hand, Start of Month		XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXX
*Produced			
*Sold			XXXXXXXXXXXXXXX
*Spilled or Lost		XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXX
*Used on Lease			XXXXXXXXXXXXXXX
*Injected			
*Surface Pits	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	
*Other (Identify)			
*On hand, End of Month		XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXX
*API Gravity/BTU Content			XXXXXXXXXXXXXXX

Authorized Signature: A. E. Stuart Address: P.O. Box 2920, Casper, WY 82602

Title: Area Manager

Form OGC-1b

3

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT (Other instructions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.
API #43-037-30930

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL [X] GAS WELL [ ] OTHER

7. UNIT AGREEMENT NAME
Rather Ford Unit

2. NAME OF OPERATOR
Phillips Pet. Co.

8. FARM OR LEASE NAME

3. ADDRESS OF OPERATOR
8055 E. Tufts Ave Parkway, Denver, Co. 80235

9. WELL NO.
#20-22

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
2020' FNL + 2090 FWL
SE NW Sec 20-T41S-R24E

10. FIELD AND POOL, OR WILDCAT
Greater Aneth

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec 20-T41S-R24E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
4787' ungraded ground

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other)			[ ]
(Other) Set 7" Csg.			[ ]	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Set 7" Csg. at 5696'

API # 43-037-30930

Drilled by 4 Corners Drlg. Co Rig #8

RECEIVED
DEC 19 1983
DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED Henry J. Hawkins TITLE Development Supervisor DATE Dec. 14, 1983

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form OGC-1b

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

3

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

5. LEASE DESIGNATION AND SERIAL NO.: API 43-037-30930

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☒ GAS WELL ☐ OTHER

7. UNIT AGREEMENT NAME: Rutherford Unit.

2. NAME OF OPERATOR: PHILLIPS PETROLEUM COMPANY
ATTN: RMR DRLG. GROUP

8. FARM OR LEASE NAME:

3. ADDRESS OF OPERATOR: 8055 E. TUFTS AVE. PKWY. DENVER, CO 80237

9. WELL NO.: 20-22

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 2020' FNL + 2090 FWL Sec 20-T41S-R24E.

10. FIELD AND POOL, OR WILDCAT: Greater Aneth

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: SE NW Sec 20-T41S-R24E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5690' G.L.

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			☐
(Other) Set 7" Prod. Csg.	☐			(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Set 7" Production Csg @ 5690'

Drilled BY Four Corners Drlg. Co.

RECEIVED
DEC 23 1983
DIVISION OF OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED Bobby Cupp TITLE Staff Drlg Supv DATE 12-19-83

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form 9-329 Rev. Feb 76
OMB 42-R0356

MONTHLY REPORT OF OPERATIONS

Lease No. 14-2 53
Communitization Agreement No. NA
Field Name Greater Aneth
Unit Name Ratherford Unit (SW-I-4192)
Participating Area Paradox
County San Juan State Utah
Operator Phillips Oil Company

☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of January, 1984

(See Reverse of Form for Instructions)

This report is required by Law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & ¼ of ¼	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
20-22	Sec. 20 SE NW	41S	24E	DRG					

FINAL REPORT

TD 5690, PBTD 5618'
Ran pumps & rods & started well pmpg 1/13/84.
Completed as a pmpg oil well from Desert Creek Zone I perfs 5567-5582', with a final test of 50 BOPD, 18 MCFGPD, 0 BWPD, GOR 360.

*If none, so state.

Disposition of production (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
*On hand, Start of Month		XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX
*Produced			
*Sold			XXXXXXXXXXXXXXXX
*Spilled or Lost		XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXX
*Used on Lease			XXXXXXXXXXXXXXXX
*Injected			
*Surface Pits	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	
*Other (Identify)			
*On hand, End of Month		XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX
*API Gravity/BTU Content			XXXXXXXXXXXXXXXX

Authorized Signature: A. E. Stuart Address: P.O. Box 2920, Casper, WY 82602

Title: Area Manager

9-331
1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well [X] gas well [ ] other

2. NAME OF OPERATOR
Phillips Oil Company

3. ADDRESS OF OPERATOR
P.O. Box 2920, Casper, WY 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE:
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. LEASE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME
SW-I-4192

8. FARM OR LEASE NAME
Ratherford Unit

9. WELL NO.

10. FIELD OR WILDCAT NAME
Greater Aneth

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	[ ]		[ ]
FRACTURE TREAT	[ ]		[ ]
SHOOT OR ACIDIZE	[ ]		[ ]
REPAIR WELL	[ ]		[ ]
PULL OR ALTER CASING	[ ]		[ ]
MULTIPLE COMPLETE	[ ]		[ ]
CHANGE ZONES	[ ]		[ ]
ABANDON*	[ ]		[ ]
(other) Change of Operator			

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Effective December 1, 1983, Phillips Oil Company assumed operations from Phillips Petroleum Company. The following wells had Applications for Permits to Drill submitted under Phillips Petroleum Company:

Ratherford Unit #19-42, 20-13, 20-44, 20-22, 20-24, 20-33, 21-13, 29-42, 29-32, & 29-33. ~~29-31~~

JAN 19 1984

DIVISION OF
OIL, GAS & MINING

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED A. E. Stuart TITLE Area Manager DATE 1/13/84

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

9–331
1973

Form Approved.
Budget Bureau No. 42–R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9–331–C for such proposals.)

1. oil well ☒ gas well ☐ other

2. NAME OF OPERATOR
Phillips Petroleum Company

3. ADDRESS OF OPERATOR
8055 E. Tufts Ave. Pkwy./Denver, CO. 80237

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2020 FNL 2090 FWL (SE NW)
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. LEASE
14-10-603-353

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME
SW-I-4192

8. FARM OR LEASE NAME
Ratherford Unit

9. WELL NO.
20-22

10. FIELD OR WILDCAT NAME
Greater Aneth

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 20-T42S-R24E 41S

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

14. API NO.
43-037-30930

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4787-GL

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	☐		☐
FRACTURE TREAT	☐		☐
SHOOT OR ACIDIZE	☐		☐
REPAIR WELL	☐		☐
PULL OR ALTER CASING	☐		☐
MULTIPLE COMPLETE	☐		☐
CHANGE ZONES	☐		☐
ABANDON*	☐		☐
(other)			

RECEIVED
JAN 18 1984
DIVISION OF
OIL, GAS & MINING

(NOTE: Report results of multiple completion or zone change on Form 9–330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Spudded well November 28, 1983, with Four Corners, Rig #8. Drilled 12¼" hole to 1610. Ran 1610 ft, 9-5/8" 40# K-55 surface casing. Cemented with 720 ft.^{3} (300 sx) class B, cement did not circulate. Cemented annulus with 75 ft.^{3} (63 sx) class B thru 1" pipe. Job completed 11-30-83. Drill 8-3/4" hole to 5690 ft. Ran 5690 ft., 7", 23 + 26# K-55 casing. Cemented with 960 ft.^{3} (400 sx) class B with 20% Diacel D, tailed with 360 ft.^{3} (300 sx) class B with 18% salt. Pressure tested casing to 1500 psi. Job complete 12-12-83.
TOC at 2820.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED [signature] TITLE Drilling Manager DATE 12 Jan 1984

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

5 - BLM Farmington, NM.
[redacted] Utah O & G CC Salt Lake City, UT.
1 - File
1 - T.M. Issacs
1 - Casper

*See Instructions on Reverse Side

Form 9-330
(Rev. 5-63)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: 14-20-603-353

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo

1a. TYPE OF WELL: OIL WELL [XX] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

7. UNIT AGREEMENT NAME: SW-I-4192

8. FARM OR LEASE NAME: Ratherford Unit

2. NAME OF OPERATOR: Phillips Oil Company

9. WELL NO.: 20-22

3. ADDRESS OF OPERATOR: P.O. Box 2920

10. FIELD AND POOL, OR WILDCAT: Greater Aneth

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 2020' FNL & 2090' FWL, SE NW
At top prod. interval reported below
At total depth

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 20-T41S-R24E

RECEIVED
JAN 20 1984
DIVISION OF OIL, GAS & MINING

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
43-037-30930	9/7/83	San Juan	Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
11/28/83	12/10/83	1/1/84	GR 4783' RKB 4795'	--

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
5690'	5618'	--	→	0 - 5690'	--

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
5567' - 5582' Desert Creek Zone I

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN
Dual Laterlog - Micro SFL, Comp Density, Comp Neutron, GR

27. WAS WELL CORED: No

28. CASING RECORD (*Report all strings set in well*)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	48#	133'	18"	150 sx Class B	--
9-5/8"	40#	1610'	12-1/4"	600 sx Class B	--
				Cmtd thru 1" w/63 sx Class B	
7"	23# & 26#	5690'	8-3/4"	700 sx Class B	--

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
--	--	--	--	--

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	5427'	--

31. PERFORATION RECORD (*Interval, size and number*)
5567-5582', 2 SPF, 31 holes, 4" hollow steel carrier gun, 23 gram charges

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5567-82'	Spot 500 gal 28% HCL FE Acid w/5 gal/1000 Lo-Surf 259, 5 gal/1000 HAI-50, 10 gal/1000 HC-2. Pmpd 2000 gal acid w/48, 1.3 sp grav, ball sealers evenly spaced. Over-displd w/7 bbls.

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
1/1/84	Pumping - 1-3/4" Pump	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
1/13/84	24	--		50	18	0	350

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
--	--		50	18	0	40.0

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*)
Sold

TEST WITNESSED BY: --

35. LIST OF ATTACHMENTS
None

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED A. E. Stuart TITLE Area Manager DATE 1/17/84

*(See Instructions and Spaces for Additional Data on Reverse Side)

3 - BLM, Farmington
2 - Utah O&GCC, SLC
1 - BIA, Shiprock
1 - Navajo Nation
1 - Whitmire
1 - Coffelt
1 - B. Conner, B'Ville
1 - Fraser
1 - Poling
1 - File
1 - W.I. Owners

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.
If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.
Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.
Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.
Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.
Item 29: *"Sacks Cement":* Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.
Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
			NO CORES OR DST'S RUN.

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
	LOG TOPS	
Shinarump		2353'
DeChelly		2655'
Hermosa		4568'
Paradox		5432'

U.S. GOVERNMENT PRINTING OFFICE: 1963—O-683636

GPO 870-401

9-331
1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well [X] gas well [ ] other

2. NAME OF OPERATOR
Phillips Petroleum Company

3. ADDRESS OF OPERATOR
8055 E. Tufts Ave. Pkwy./Denver, CO. 80237

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2020 FNL & 2090 FWL (SE NW)
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. LEASE
14-20-603-353

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME
SW-I-4192

8. FARM OR LEASE NAME
Ratherford Unit

9. WELL NO.
20-22

10. FIELD OR WILDCAT NAME
Greater Aneth

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec 20-T41S-R24E

12. COUNTY OR PARISH 13. STATE
San Juan Utah

14. API NO.
43-037-30930

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4795 RKB

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	[ ]		[ ]
FRACTURE TREAT	[ ]		[ ]
SHOOT OR ACIDIZE	[ ]		[ ]
REPAIR WELL	[ ]		[ ]
PULL OR ALTER CASING	[ ]		[ ]
MULTIPLE COMPLETE	[ ]		[ ]
CHANGE ZONES	[ ]		[ ]
ABANDON*	[ ]		[ ]
(other)			

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Drilled 18" conductor hole to 134 ft. Ran 133 ft., 13-3/8" 54.5# K-55 conductor casing. (Completion report incorrectly shows pipe to be 48#). Cemented with 180 ft^3 (150 sx) class 'B' cement circulated to surface. Finished job and moved out rat hole driller 11-18-83. Moved in drilling rig to spud well. See Sundry Notice dated 1-12-84. Reached TD of 5690 ft on 12-10-83. Plug back total depth is 5618 ft.

RECEIVED
FEB 28 1984
DIV. OF OIL, GAS & MINING

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Harold W Beck TITLE Drilling Manager DATE 2-28-84

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

6 - BLM Farmington, NM.
2 - Utah Oil & Gas CC Salt Lake City
1 - File - RC
1 - T. M. Issacs
1 - Casper

*See Instructions on Reverse Side

Form 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: Phillips Oil Company

3. ADDRESS OF OPERATOR: P. O. Box 2920 Casper, WY 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 2020' FNL & 2090' FWL, SE NW

5. LEASE DESIGNATION AND SERIAL NO.: 14-20-603-353

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo

7. UNIT AGREEMENT NAME: SW-I-4192

8. FARM OR LEASE NAME: Ratherford Unit

9. WELL NO.: #20-22

10. FIELD AND POOL, OR WILDCAT: Greater Aneth

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 20-T41S-R24E

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

14. PERMIT NO.: 43-037-30930

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 4795' RKB

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[X]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]				
(Other) Perforate Additional 7'				(Other)			

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

It is proposed to perforate an additional seven feet of Desert Creek Zone I (5582'-5589'), acidize entire Zone I interval 5567'-5589' with 3000 gallons of 28% HCL, and return Ratherford Unit #20-22 to Production.

RECEIVED
OCT 29 1984
DIVISION OF OIL GAS & MINING

ACCEPTED
~~APPROVED~~ BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 11/1/84
BY: John R. Baza

5- BLM Farmington, NM
2 Utah O&GCC, Salt Lake City, UT
1- L. Williamson Denver (r) T.C. Doughty
1- J. R. Weichbrodt
1- C. M. Anderson
1- P. J. Adamson
1- B. Conner, 318-B-TRW
1- File RC

Federal approval of this action is required before commencing operations.

18. I hereby certify that the foregoing is true and correct

SIGNED A. E. Stuart TITLE Area Manager DATE October 26, 1984

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

February 19, 1985

Phillips Oil Company
P.O. Box 2920
Casper, Wyoming 82602

Gentlemen:

Re: Ratherford Unit 20-22 - Sec. 20, T. 41S., R. 24E
San Juan County, Utah - API #43-037-30930

This office received notification of intent to perforate the above mentioned well on November 1, 1984. We have not received a subsequent report.

If this work was done, please complete the enclosed sundry notice and return it to our office as soon as possible.

Thank you for your prompt attention to this matter.

Sincerely,

Claudia L. Jones

Claudia L. Jones
Well Records Specialist

cc: Dianne R. Nielson
Ronald J. Firth
John R. Baza
File
0087S/46

orm 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.	14-20-603-353
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	Navajo
1. OIL WELL [XX] GAS WELL [ ] OTHER	
7. UNIT AGREEMENT NAME	SW-I-4192
2. NAME OF OPERATOR	Phillips Oil Company
8. FARM OR LEASE NAME	Ratherford Unit
3. ADDRESS OF OPERATOR	P. O. Box 2920, Casper, Wyoming 82602
9. WELL NO.	20-22
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface	2020' FNL & 2090' FWL, SE NW
10. FIELD AND POOL, OR WILDCAT	Greater Aneth
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	Sec. 20-T41S-R24E
API #43-037-30930	
14. PERMIT NO.	
15. ELEVATIONS (Show whether DF, RT, GR, etc.)	4795' RKB
12. COUNTY OR PARISH	San Juan
13. STATE	Utah

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other) Perf addtl 7' & Acidized			
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

December 10, 1984 through December 12, 1984

PBTD 5618.
Perforated additional interval 5582-89', 2 SPF. Acidized w/3000 gal 28% HCL MSR-100 in 4 stages. Set 163 jts 2-7/8" tbg at 5416'. Ran rods and pump and Returned to a Pumping Oil Well 12/12/84 from Desert Creek Zone I Perfs 5567-5589'.

Production Prior to Workover - 12 BOPD, 21 MCFGPD, 1 BWPD.
Production After Workover - 8 BOPD, 5 MCFGPD, 1 BWPD.

18. I hereby certify that the foregoing is true and correct

SIGNED A. E. Stuart TITLE Area Manager DATE May 13, 1985

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

4 - BLM, Farmington, NM
2 - Utah O&G CC, Salt Lake City, UT
1 - B. A. Conner, B'Ville
1 - R. M. Coffelt r) P. Bertuzzi, Denver
1 - File RC

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

FORM 10

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

P J KONKEL
PHILLIPS PETROLEUM COMPANY
5525 HWY 64 NBU 3004
FARMINGTON NM 87401

RECEIVED
AUG 16 1993
DIVISION OF
OIL, GAS & MINING

UTAH ACCOUNT NUMBER: N0772

REPORT PERIOD (MONTH/YEAR): 6 / 93

AMENDED REPORT ☐ (Highlight Changes)

Well Name / API Number	Entity	Location	Producing Zone	Well Status	Days Oper	Production Volumes OIL(BBL)	GAS(MCF)	WATER(BBL)
#21-23 4303713754	06280	41S 24E 21	DSCR	POW	29	1374	883	58
#3-44 4303715031	06280	41S 24E 3	DSCR	POW	30	111	94	2905
#3-14 4303715124	06280	41S 24E 3	DSCR	POW	30	67	23	302
#9-12 4303715126	06280	41S 24E 9	DSCR	POW	30	112	654	17363
#9-14 4303715127	06280	41S 24E 9	DSCR	POW	30	201	315	423
#28-12 4303715336	06280	41S 24E 28	PRDX	POW	29	112	47	2428
#29-12 4303715337	06280	41S 24E 29	PRDX	POW	29	56	0	672
#29-32 4303715339	06280	41S 24E 29	DSCR	POW	29	1402	287	2224
#29-34 4303715340	06280	41S 24E 29	DSCR	POW	29	757	48	0
#30-32 4303715342	06280	41S 24E 30	DSCR	POW	29	588	1049	3744
#3-12 4303715620	06280	41S 24E 3	DSCR	POW	30	268	11	363
#9-34 4303715711	06280	41S 24E 9	DSCR	POW	30	45	46	9800
#10-12 4303715712	06280	41S 24E 10	DSCR	POW	30	45	23	1088
				TOTALS		5138	3480	41370

USNM 8-18-93

COMMENTS: Effective July 1, 1993, Phillips Petroleum Company has sold its interest in the Ratherford Unit to Mobil Exploration and Producing U.S., Incorporated, P. O. Box 633, Midland, Texas 79702. Mobil assumed operations on July 1, 1993.

I hereby certify that this report is true and complete to the best of my knowledge. Date: 8/11/93

Name and Signature: PAT KONKEL Pat Konkel Telephone Number: 505 599-3452

19W-21	43-037-15741	14-20-603-353	SEC. 19, T41S, R24E	NE/NW 660' FNL 1860' FWL	
19-22	43-037-31046	14-20-603-353	SEC. 19, T41S, R24E	SE/NW 1840' FNL; 1980' FWL	
19W-23	43-037-15742	14-20-603-353	SEC. 19, T41S, R24E	NE/SW 2080' FSL; 1860' FWL	
19-31	43-037-31047	14-20-603-353	SEC. 19, T41S, R24E	NW/NE 510' FNL; 1980' FEL	
19-32	43-037-15743	14-20-603-353	SEC. 19, T41S, R24E	SW/NE 1980' FNL; 1980' FEL	
19-33	43-037-31048	14-20-603-353	SEC. 19, T41S, R24E	NW/SE 1980' FSL; 1980' FEL	
19-34	43-037-15744	14-20-603-353	SEC. 19, T41S, R24E	SW/SE 660' FSL; 1980' FEL	
19W-41	43-037-15745	14-20-603-353	SEC. 19, T41S, R24E	NE/NE 660' FNL; 660' FEL	
19-42	43-037-30916	14-20-603-353	SEC. 19, T41S, R24E	SE/NE 1880' FNL, 660' FEL	
19W-43	43-037-16420	14-20-603-353	SEC. 19, T41S, R24E	NE/SE 1980' FSL; 760' FEL	
19-44	43-037-31081	14-20-603-353	SEC. 19, T41S, R24E	SE/SE 660' FSL; 660' FEL	
19-97	43-037-31596	14-20-603-353	SEC. 19, T41S, R24E	2562' FNL, 30' FEL	
20-11	43-037-31049	14-20-603-353	SEC. 20, T41S, R24E	NW/NW 500' FNL; 660' FWL	
20-12	43-037-15746	14-20-603-353	SEC. 20, T41S, R24E	1980' FNL, 660' FWL	
20-13	43-037-30917	14-20-603-353	SEC. 20, T41S, R24E	NW/SW 2140' FSL, 500' FWL	
20-14	43-037-15747	14-20-603-353	SEC. 20, T41S, R24E	660' FSL; 660' FWL	
20W-21	43-037-16423	14-20-603-353	SEC. 20, T41S, R24E	660' FNL; 1880' FWL	
20-22	43-037-30930	14-20-603-353	SEC. 20, T41S, R24E	SE/NW 2020' FNL; 2090' FWL	
20W-23	43-037-15748	14-20-603-353	SEC. 20, T41S, R24E	NW/SW 2080; 2120' FWL	
20-24	43-037-30918	14-20-603-353	SEC. 20, T41S, R24E	SE/SW 820' FSL; 1820' FWL	
20-31	43-037-31050	14-20-603-353	SEC. 20, T41S, R24E	NW/NE 660' FNL; 1880' FEL	
20-32	43-037-15749	14-20-603-353	SEC. 20, T41S, R24E	SW/NE 1980' FNL, 1980' FEL	
20-33	43-037-30931	14-20-603-353	SEC. 20, T41S, R24E	NW/SE 1910' FSL; 2140' FEL	
20-34	43-037-15750	14-20-603-353	SEC. 20, T41S, R24E	660' FSL; 1850' FEL	
20W-41	43-037-15751	14-20-603-353	SEC. 20, T41S, R24E	NE/NE 660' FNL; 660' FEL	PA'd
20-42	43-037-31051	14-20-603-353	SEC. 20, T41S, R24E	SE/NE 1980 ' FNL; 660' FEL	
20W-43	43-037-16424	14-20-603-353	SEC. 20, T41S, R24E	2070' FSL; 810' FEL	
20-44	43-037-30915	14-20-603-353	SEC. 20, T41S, R24E	SE/SE 620' FSL; 760' FEL	
20-66	43-037-31592	14-20-603-353	SEC. 20, T41S, R24E	SW/NW 1221' FWL; 1369' FNL	
21-11	43-037-31052	14-20-603-355	SEC. 21, T41S, R24E	NW/NW 660' FNL; 660 FWL	
21-12	43-037-15752	14-20-603-355	SEC. 21, T41S, R24E	2080' FNL; 660' FWL	
21-13	43-037-30921	14-20-603-355	SEC. 21, T41S, R24E	NW/SW 2030' FSL; 515' FWL	
21-14	43-037-15753	14-20-603-355	SEC. 21, T41S, R24E	SW/SW 660' FSL; 460' FWL	
21W-21	43-037-16425	14-20-603-355	SEC. 21, T41S, R24E	NE/NW 660' FNL; 2030' FWL	
21-32	43-037-15755	14-20-603-355	SEC. 21, T41S, R24E	SW/NE 1880' FNL; 1980' FEL	
~~21-33~~	~~NA~~	~~14-20-603-355~~	~~SEC. 21, T41S, R24E~~	~~2000 FSL; 1860' FEL~~	
21-34	43-037-15756	14-20-603-355	SEC. 21, T41S, R24E	SW/SE 660' FSL; 1980' FEL	
21W-41	43-037-16426	14-20-603-355	SEC. 21, T41S, R24E	660' FNL; 810' FEL	PA'd
21W-43	43-037-16427	14-20-603-355	SEC. 21, T41S, R24E	NE/NE 1980' FSL; 660' FEL	
24-11	43-037-15861	14-20-603-247A	SEC. 24, T41S, R24E	510' FNL; 810' FWL	PA'd
24W-21	43-037-16429	14-20-603-247	SEC. 24, T41S, R24E	4695' FSL; 3300' FEL	PA'd
24W-43	43-037-16430	14-20-603-247	SEC. 24, T41S, R24E	2080' FSL; 660' FEL	
24-31W	43-037-15862	14-20-603-247A	SEC. 24, T41S, R24E	NW/NE 560' FNL; 1830' FEL	
24-32	43-037-31593	14-20-603-247A	SEC. 24, T41S, R24E	SW/NE 2121' FNL; 1846' FEL	
24-41	43-037-31132	14-20-603-247A	SEC. 24, T41S, R24E	NE/NE 660' FNL; 710' FEL	
24W-42	43-037-15863	14-20-603-247A	SEC. 24, T41S, R24E	660' FSL; 1980' FNL	
28-11	43-037-30446	14-20-603-409	SEC. 28, T41S, R24E	NW/NW 520' FNL; 620' FWL	
28-12	43-037-15336	14-20-603-409B	SEC. 28, T41S, R24E	SW/SE/NW 2121' FNL; 623' FWL	
29-11	43-037-31053	14-20-603-407	SEC. 29, T41S, R24E	NW/NW 770' FNL; 585' FWL	
29W-21	43-037-16432	14-20-603-407	SEC. 29, T41S, R24E	NE/NW 667' FNL; 2122' FWL	
29-22	43-037-31082	14-20-603-407	SEC. 29, T41S, R24E	SE/NW 2130' FNL; 1370' FWL	
29W-23	43-037-15338	14-20-603-407	SEC. 29, T41S, R24E	NE/SW 1846' FSL; 1832' FWL	
29-31	43-037-30914	14-20-603-407	SEC. 29, T41S, R24E	NW/NE 700' FNL; 2140' FEL	
29-32	43-037-15339	14-20-603-407	SEC. 29, T41S, R24E	1951' FNL; 1755' FEL	
29-33	43-037-30932	14-20-603-407	SEC. 29, T41S, R24E	NW/SE 1860' FSL; 1820' FEL	
29-34	43-037-15340	14-20-603-407	SEC. 29, T41S, R24E	817 FSL; 2096' FEL	
29W-41	43-037-16433	14-20-603-407	SEC. 29, T41S, R24E	557' FNL; 591' FEL	
29W-42	43-037-30937	14-20-603-407	SEC. 29, T41S, R24E	SE/NE 1850' FNL; 660' FEL	
29W-43	43-037-16434	14-20-603-407	SEC. 29, T41S, R24E	NE/SE 1980' FSL; 660' FEL	
30-21W	43-037-16435	14-20-603-407	SEC. 30, T41S, R24E	660' FNL; 1920' FWL	
30-32	43-037-15342	14-20-603-407	SEC. 30, T41S, R24E	SW/NE 1975' FNL; 2010' FEL	
30W-41	43-037-15343	14-20-603-407	SEC. 30, T41S, R24E	NE/NE 660' FNL; 660' FEL	
9-34	NA 43037157II	NA 14206034043	NA Sec. 9 T. 41S R. 24E	NA SWSE 660' FSL 1980 FEL	
12-43	43-307-31202	14-20-603-246	SEC. 12. T41S. R23E	2100' FSL;660 FEL	
12W31	43-037-15847	14-20-603-246	SEC. 12, T41S, R23E	661' FNL;, 1981' FEL	
13W24	43-037-15853	14-20-603-247	SEC. 13, T41S, R23E	SE/SW 660' FSL;3300'FEL	
15W23	43-037-16412	14-20-603-355	SEC. 15, T41S, R24E	2140' FSL;1820' FWL	
17-24	43-037-31044	14-20-603-353	SEC. 17, T41S, R24E	SE/SW 720' FSL; 1980' FWL	
18-13	43-037-15734	14-20-603-353	SEC. 18, T41S, R24E	NW/NW 1980' FSL;500' FWL	
18W32	43-037-15736	14-20-603-353	SEC. 18, T41S, R24E	SW/NE2140'FNL;1830' FEL	
20-68	43-037-31591	14-20-603-353	SEC. 20, T41S, R24E	NW/SW 1276' FWL;1615' FSL	
21-23	43-037-13754	14-20-603-355	SEC. 21, T41S, R24E	NE/SW 1740 FSL 1740 FWL	
28W21	43-037-16431	14-20-603-409	SEC.29, T41S, R24E	660' FNL; 2022' FWL	

FORM 9

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION & SERIAL NO.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NAVAJO TRIBAL

1. OIL WELL ☐ GAS WELL ☐ OTHER

7. UNIT AGREEMENT NAME: RATHERFORD UNIT

2. NAME OF OPERATOR: MOBIL OIL CORPORATION

8. FARM OR LEASE NAME

3. ADDRESS OF OPERATOR: P. O. BOX 633 MIDLAND, TX 79702

9. WELL NO.

SEP 13 1993

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface

At proposed prod. zone

DIVISION OF OIL, GAS & MINING

10. FIELD AND POOL, OR WILDCAT: GREATER ANETH

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

14. API NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.)	12. COUNTY	13. STATE
		SAN JUAN	UTAH

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other) CHANGE OF OPERATOR			☐
(Other)				(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			
APPROX. DATE WORK WILL START _____				DATE OF COMPLETION _____			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

* Must be accompanied by a cement verification report.

AS OF JULY1, 1993, MOBIL OIL CORPORATION IS THE OPERATOR OF THE RATHERFORD UNIT. ATTACHED ARE THE INDIVIDUAL WELLS.

18. I hereby certify that the foregoing is true and correct

SIGNED Shirley Todd TITLE ENV. & REG TECHNICIAN DATE 9-8-93

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

See Instructions On Reverse Side

(3/89)

FORM 11

STATE OF UTAH
/ISION OF OIL, GAS AND MINING

MONTHLY OIL AND GAS DISPOSITION REPORT

OPERATOR NAME AND ADDRESS:

LB Sheffield
~~BRIAN BERRY~~
~~M E P N A~~ MOBIL
~~POB 219031 1807A RENTWR~~ P.O. DRAWER G
DALLAS TX 75221-9031 CORTEZ, Co. 81321

UTAH ACCOUNT NUMBER: N7370

REPORT PERIOD (MONTH/YEAR): 7 / 93

AMENDED REPORT ☐ **(Highlight Changes)**

*931006 updated. fee

ENTITY NUMBER	PRODUCT	GRAVITY BTU	BEGINNING INVENTORY	VOLUME PRODUCED	DISPOSITIONS TRANSPORTED	DISPOSITIONS USED ON SITE	DISPOSITIONS FLARED/VENTED	DISPOSITIONS OTHER	ENDING INVENTORY
05980	OIL			177609	179609	0			
	GAS			72101	66216	5885			
11174	OIL								
	GAS								
	OIL								
	GAS								
	OIL								
	GAS								
	OIL								
	GAS								
	OIL								
	GAS								
	OIL								
	GAS								
TOTALS				249710	243825	5885			

RECEIVED
SEP 13 1993
DIVISION OF
OIL, GAS & MINING

COMMENTS: PLEASE NOTE ADDRESS CHANGE. MOBIL ~~A&G~~ PRODUCTION REPORTS WILL BE COMPILED AND SENT FROM THE CORTEZ, Co. OFFICE IN THE FUTURE.

I hereby certify that this report is true and complete to the best of my knowledge.

Date: 9/5/93

Name and Signature: Lowell B Sheffield

Telephone Number: 303 565 2212 ~~214 658 2538~~

(6/93)

FORM=NR0003.FRM 07/2

Sept 29, 1993

TO: Lisha Cordova - Utah Mining Oil & Gas

FROM: Janice Easley
BLM Farmington, NM
505 599-6355

Here is copy of Rutherford Unit Successor Operator.

4 pages including this one.

Ratherford Unit (GC)

Navajo Area Office
P. O. Box 1060
Gallup, New Mexico 87305-1060

ARES/543

JUL 26 1993

Mr. G. D. Cox
Mobil Exploration and
Producing North America, Inc.
P. O. Box 633
Midland, Texas 79702

Dear Mr. Cox:

Enclosed for your information and use is the approved Designation of Operator between the Phillips Petroleum Company and Mobil Exploration and Producing North America, Inc. for the Ratherford Unit.

Please note that all other concerned parties will be furnished their copy of the approved document.

Sincerely,

ACTING Area Director

Enclosure

cc: Bureau of Land Management, Farmington District Office w/enc.
TNN, Director, Minerals Department w/enc.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF INDIAN AFFAIRS

DESIGNATION OF OPERATOR

Phillips Petroleum Company is, on the records of the Bureau of Indian Affairs, operator of the Ratherford Unit,

AREA OFFICE: Window Rock, Arizona
LEASE NO: Attached hereto as Exhibit "A"

and, pursuant to the terms of the Ratherford Unit Agreement, is resigning as Unit Operator effective July 1, 1993, and hereby designates

NAME: Mobil Exploration and Producing North America Inc., duly elected pursuant to the terms of the Ratherford Unit Agreement,

ADDRESS: P. O. Box 633, Midland, Texas 79702
Attn: G. D. Cox

as Operator and local agent, with full authority to act on behalf of the Ratherford Unit lessees in complying with the terms of all leases and regulations applicable thereto and on whom the authorized officer may serve written or oral instructions in securing compliance with the Operating Regulations (43 CFR 3160 and 25 CFR 211 and 212) with respect to (described acreage to which this designation is applicable):

Attached hereto as Exhibit "A"

Bond coverage under 25 CFR 211, 212 or 225 for lease activities conducted by the above named designated operator is under Bond Number 05202782 (attach copy). Evidence of bonding is required prior to the commencement of operations.

It is understood that this designation of operator does not relieve any lessee of responsibility for compliance with the terms of the leases and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the leases.

In case of default on the part of the designated operator, the lessees will make full and prompt compliance with all regulations, lease terms, stipulations, or orders of the Secretary of the Interior or his representative.

Attached is the appropriate documentation relevant to this document.

The designated operator agrees to promptly notify the authorized officer of any change in the operatorship of said Ratherford Unit.

Phillips Petroleum Company

June 17, 1993

By: M. B. Fuller, Jr.
Attorney-in-Fact

Mobil Exploration and Producing
North America Inc.

June 11, 1993

By: B. D. Martiny
Attorney-in-Fact B.D. MARTINY

ACTING AREA DIRECTOR 7/9/93
APPROVED BY TITLE DATE

APPROVED PURSUANT, TO SECRETARIAL REDELEGATION ORDER 209 DM 8 AND 230 DM 3.
This form does not constitute an information collection as defined by 44 U.S.C. 3502 and therefore does not require OMB approval.

EXHIBIT "A"

ATTACHED TO AND MADE A PART OF DESIGNATION OF SUCCESSOR OPERATOR, RATHERFORD UNIT

EXHIBIT "C"

Revised as of September 29, 1992)
SCHEDULE OF TRACT PERCENTAGE PARTICIPATION

Tract Number	Description of Land	Serial Number and Effective Date of Lease	Tract Percentage Participation
1	S/2 Sec. 1, E/2 SE/4 Sec. 2, E/4 Sec. 11, and all of Sec. 12, T-41-S, R-23-E, S.L.M. San Juan County, Utah	14-20-603-246-A Oct. 5, 1953	11.0652565
2	SE/4 and W/2 SW/4 Sec. 5, the irregular SW/4 Sec. 6, and all of Sec. 7 and 8, T-41-S, R-24-E, San Juan County, Utah	14-20-603-368 Oct. 26, 1953	14.4159942
3	SW/4 of Sec. 4, T-41-S, R-24-E, San Juan County, Utah	14-20-603-5446 Sept. 1, 1959	.5763826
4	SE/4 Sec. 4, and NE/4 Sec. 9, T-41-S, R-24-E, San Juan County, Utah	14-20-603-4035 March 3, 1958	1.2587779
5	SW/4 of Sec. 3, T-41-S, R-24-E, S.L.M., San Juan County, Utah	14-20-603-5445 Sept. 3, 1959	.4667669
6	NW/4 of Sec. 9, T-41-S, R-24-E, S.L.M., San Juan County, Utah	14-20-603-5045 Feb. 4, 1959	1.0187043
7	NW/4, W/2 NE/4, and SW/4 Sec. 10, SE/4 Sec. 9, T-41-S, R-24-E, San Juan County, Utah	14-20-603-4043 Feb. 18, 1958	3.5097575
8	SW/4 Sec. 9, T-41-S, R-24-E, S.L.M. San Juan County, Utah	14-20-603-5046 Feb. 4, 1959	1.1141679
9	SE/4 Sec. 10 and S/2 SW/4 Sec. 11 T-41-S, R-24-E, San Juan County, Utah	14-20-603-4037 Feb. 14, 1958	2.6186804
10	All of Sec. 13, E/2 Sec. 14, and E/2 SE/4 and N/2 Sec. 24, T-41-S, R-23-E, S.L.M., San Juan County, Utah	14-20-603-247-A Oct. 5, 1953	10.3108861
11	Sections 17, 18, 19 and 20, T-41-S, R-24-E, San Juan County Utah	14-20-603-353 Oct. 27, 1953	27.3389265
12	Sections 15, 16, 21, and NW/4, and W/2 SW/4 Sec. 22, T-41-S, R-24-E, San Juan County, Utah	14-20-603-355 Oct. 27, 1953	14.2819339
13	W/2 Section 14, T-41-S, R-24-E, San Juan County, Utah	14-20-603-370 Oct. 26,1953	1.8500847
14	N/2 and SE/4, and E/2 SW/4 Sec. 29, NE/4 and E/2 SE/4 and E/2 W/2 irregular Sec. 30, and E/2 NE/4 Sec. 32, T-41-S, R-24-E, San Juan County, Utah	14-20-603-407 Dec. 10, 1953	6.9924969
15	NW/4 Sec. 28, T-41-S, R24-E San Juan County, Utah	14-20-603-409 Dec. 10, 1953	.9416393
16	SE/4 Sec. 3, T-41-S, R-24-E San Juan County, Utah	14-20-0603-6504 July 11, 1961	.5750254
17	NE/4 Sec. 3, T-41-S, R-24-E San Juan County, Utah	14-20-0603-6505 July 11, 1961	.5449292
18	NW/4 Sec. 3, T-41-S, R-24-E San Juan County, Utah	14-20-0603-6506 July 11, 1961	.5482788
19	NE/4 Sec. 4, T-41-S, R24-E San Juan County, Utah	14-20-0603-7171 June 11, 1962	.4720628
20	E/2 NW/4 Sec. 4, T-41-S, R-24-E San Juan County, Utah	14-20-0603-7172 June 11, 1962	.0992482
100% Indian Lands		TOTAL 12,909.74	100.0000000

Division of Oil, Gas and Mining

PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

[] Well File _____

_____

(Location) Sec___Twp___Rng___

(API No.) _____

[] Suspense

(Return Date) _____

(To - Initials) _____

XXX Other

OPERATOR CHANGE

_____

_____

1. Date of Phone Call: 10-6-93 Time: 9:30

2. DOGM Employee (name) L. CORDOVA (Initiated Call XXX)

Talked to:

Name GLEN COX (Initiated Call []) - Phone No. (915)688-2114

of (Company/Organization) MOBIL

3. Topic of Conversation: OPERATOR CHANGE FROM PHILLIPS TO MOBIL "RATHERFORD UNIT".

(NEED TO CONFIRM HOW OPERATOR WANTS THE WELLS SET UP - MEPNA AS PER BIA APPROVAL

OR MOBIL OIL CORPORATION AS PER SUNDRY DATED 9-8-93?)

4. Highlights of Conversation:

MR. COX CONFIRMED THAT THE WELLS SHOULD BE SET UNDER ACCOUNT N7370/MEPNA AS PER BIA APPROVAL, ALSO CONFIRMED THAT PRODUCTION & DISPOSITION REPORTS WILL NOW BE HANDLED OUT OF THEIR CORTEZ OFFICE RATHER THAN DALLAS.

MEPNA-

PO DRAWER G

CORTEZ, CO 81321

(303)565-2212

*ADDRESS CHANGE AFFECTS ALL WELLS CURRENTLY OPERATORED BY MEPNA, CURRENTLY REPORTED OUT OF DALLAS (MCELMO CREEK).

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:

1-VEC/7-SJ
2-DTS/8-FILE
3-VLC
4-RJF
5-LEC
6-PL

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

XX Change of Operator (well sold) ☐ Designation of Agent
☐ Designation of Operator ☐ Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 7-1-93)

TO (new operator) M E P N A
(address) PO DRAWER G
CORTEZ, CO 81321
GLEN COX (915)688-2114
phone (303) 565-2212
account no. N7370

FROM (former operator) PHILLIPS PETROLEUM COMPANY
(address) 5525 HWY 64 NBU 3004
FARMINGTON, NM 87401
PAT KONKEL
phone (505) 599-3452
account no. N0772(A)

Well(s) (attach additional page if needed): *RATHERFORD UNIT (NAVAJO)

Name	API	Entity	Sec	Twp	Rng	Lease Type
SEE ATTACHED	43-037-30930					

OPERATOR CHANGE DOCUMENTATION

Lec 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (Reg. 8-20-93) (6/93 Prod. Rpt. 8-16-93)

Lec 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). (Reg. 8-31-93) (Rec'd 9-14-93)

N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) _____ If yes, show company file number: __________.

Lec 4. **(For Indian and Federal Wells ONLY)** The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.

Lec 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (O&G wells 10-6-93) (WIW's 10-26-93)

Lec 6. Cardex file has been updated for each well listed above. (O&G wells 10-6-93) (WIW's 10-26-93)

Lec 7. Well file labels have been updated for each well listed above. (O&G wells 10-6-93) (WIW's 10-26-93)

Lec 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (10-6-93)

Lec 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

– OVER –

PERATOR CHANGE WORKSHEET (CONTINUED) Initial each item when completed. Write N/A if item is not applicable.

ENTITY REVIEW

Lec 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) ____ (If entity assignments were changed, attach copies of Form 6, Entity Action Form).

N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

Lec/N/A 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.

__ 2. A copy of this form has been placed in the new and former operators' bond files.

__ 3. The former operator has requested a release of liability from their bond (yes/no) ___. Today's date _____ 19___. If yes, division response was made by letter dated _____ 19___.

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

N/A 1. (Rule R615-2-10) The former operator/lessee of any **fee lease** well listed above has been notified by letter dated _____ 19___, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
DTS 11-10-93

N/A 2. Copies of documents have been sent to State Lands for changes involving **State leases.**

FILMING

✓ 1. All attachments to this form have been microfilmed. Date: 11-17 1993.

FILING

Lec 1. Copies of all attachments to this form have been filed in each well file.

Lec 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

931006 BIA/Bhm Approved 7-9-93.

FORM 10

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
355 West North Temple, 3 Triad, Suite 350, Salt Lake City, UT 84180-1203

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

C/O MOBIL OIL CORP
M E P N A
PO DRAWER G
CORTEZ CO 81321

UTAH ACCOUNT NUMBER: N7370

REPORT PERIOD (MONTH/YEAR): 6 / 95

AMENDED REPORT ☐ **(Highlight Changes)**

Well Name / API Number / Entity / Location	Producing Zone	Well Status	Days Oper	Production Volumes OIL(BBL)	GAS(MCF)	WATER(BBL)
#20-13 4303730917 06280 41S 24E 20	DSCR					
#20-24 4303730918 06280 41S 24E 20	DSCR					
#21-13 4303730921 06280 41S 24E 21	DSCR					
#20-22 4303730930 06280 41S 24E 20	DSCR					
RATHERFORD UNIT 20-33 4303730931 06280 41S 24E 20	DSCR					
#29-33 4303730932 06280 41S 24E 29	IS-DC					
'THERFORD UNIT 29-42 .303730937 06280 41S 24E 29	DSCR					
RATHERFORD UNIT 17-24 4303731044 06280 41S 24E 17	DSCR					
RATHERFORD UNIT 18-44 4303731045 06280 41S 24E 18	DSCR					
RATHERFORD UNIT 19-22 4303731046 06280 41S 24E 19	DSCR					
RATHERFORD UNIT 19-31 4303731047 06280 41S 24E 19	DSCR					
RATHERFORD UNIT 19-33 4303731048 06280 41S 24E 19	DSCR					
RATHERFORD UNIT 20-11 4303731049 06280 41S 24E 20	DSCR					
		TOTALS				

OMMENTS: _____

I. by certify that this report is true and complete to the best of my knowledge. Date: _____

ame and Signature: _____ Telephone Number: _____

Division of Oil, Gas and Mining

PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

[ ] Well File _____

(Location) Sec___Twp___Rng___

(API No.) _____

[ ] Suspense

(Return Date) _____

(To - Initials) _____

[XXX] Other

OPER NM CHG

1. Date of Phone Call: 8-3-95 Time: _____

2. DOGM Employee (name) L. CORDOVA (Initiated Call [ ])

Talked to:

Name R. J. FIRTH (Initiated Call [XX]) - Phone No. ( )

of (Company/Organization) _____

3. Topic of Conversation: M E P N A / N7370

4. Highlights of Conversation:

OPERATOR NAME IS BEING CHANGED FROM M E P N A (MOBIL EXPLORATION AND PRODUCING NORTH AMERICA INC) TO MOBIL EXPLOR & PROD. THE NAME CHANGE IS BEING DONE AT THIS TIME TO ALLEVIATE CONFUSION, BOTH IN HOUSE AND AMONGST THE GENERAL PUBLIC.

*SUPERIOR OIL COMPANY MERGED INTO M E P N A 4-24-86 (SEE ATTACHED).

Mobil Oil Corporation

P.O. BOX 5444
DENVER, COLORADO 80217-5444

May 14, 1986

Utah Board of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Attn: R. J. Firth
Associate Director

SUPERIOR OIL COMPANY MERGER

Dear Mr. Firth:
On September 20, 1984, The Superior Oil Company (Superior) became a wholly owned subsidiary of Mobil Corporation. Since January 1, 1985, Mobil Oil Corporation (MOC), another wholly owned subsidiary of Mobil Corporation, has acted as agent for Superior and has operated the Superior-owned properties.

On April 24, 1986, Superior was merged with Mobil Exploration and Producing North America Inc. (MEPNA), which is also a wholly owned subsidiary of Mobil Corporation. MEPNA is the surviving company of the merger.

This letter is to advise you that all properties held in the name of Superior will now be held in the name of MEPNA; and that these properties will continue to be operated by MOC as agent for MEPNA.

Attached is a listing of all wells and a separate listing of injection-disposal wells, Designation of Agent and an organization chart illustrating the relationships of the various companies. If you have any questions or require additional documentation of this merger, please feel free to contact me at the above address or (303) 298-2577.

Very truly yours,

R. D. Baker
Environmental Regulatory Manager

CNE/rd
CNE8661

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:

1-LEC	7-PL ✓
2-LWP	8-SJ ✓
3-~~DTS~~	9-FILE
4-VLC ✓	
5-RJF ✓	
6-LWP ✓	

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

☐ Change of Operator (well sold) ☐ Designation of Agent
☐ Designation of Operator XXX Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: **8-2-95**)

TO (new operator) **MOBIL EXPLOR & PROD**	FROM (former operator) **M E P N A**
(address) **C/O MOBIL OIL CORP**	(address) **C/O MOBIL OIL CORP**
PO DRAWER G	**PO DRAWER G**
CORTEZ CO 81321	**CORTEZ CO 81321**
phone **(303) 564-5212**	phone **(303)564-5212**
account no. **N7370**	account no. **N7370**

Well(s) (attach additional page if needed):

Name: **** SEE ATTACHED ****	API: 037-30930	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:

OPERATOR CHANGE DOCUMENTATION

N/A 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form).

N/A 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form).

N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) _____ If yes, show company file number: _____.

N/A 4. **(For Indian and Federal Wells ONLY)** The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.

Lec 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (8-3-95)

LWP 6. Cardex file has been updated for each well listed above. 8-31-95

LWP 7. Well file labels have been updated for each well listed above. 9-28-95

Lec 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (8-3-95)

Lec 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

– OVER –

OPERATOR CHANGE WORKSHEET (CONTINUED) Initial each item when completed. Write N/A if item is not applicable.

ENTITY REVIEW

Lec 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) ___ (If entity assignments were changed, attach copies of Form 6, Entity Action Form).

N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only) * No Fee Lease Wells at this time!

N/A/Lec 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.

___ 2. A copy of this form has been placed in the new and former operators' bond files.

___ 3. The former operator has requested a release of liability from their bond (yes/no) ___. Today's date _____ 19___. If yes, division response was made by letter dated _____ 19___.

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

N/A 1. (Rule R615-2-10) The former operator/lessee of any **fee lease** well listed above has been notified by letter dated _____ 19___, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.

DTS 8/5/95

N/A 2. Copies of documents have been sent to State Lands for changes involving **State leases.**

FILMING

✓ 1. All attachments to this form have been microfilmed. Date: October 6 19 95.

FILING

___ 1. Copies of all attachments to this form have been filed in each well file.

___ 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

950803 WIC F5/Not necessary!

ExxonMobil Production Compa
U.S. West
P.O. Box 4358
Houston, Texas 77210-4358

June 27, 2001

ExxonMobil
Production

Mr. Jim Thompson
State of Utah, Division of Oil, Gas and Mining
1549 West North Temple
Suite 1210
Salt Lake City, UT 84114-5801

Change of Name – Mobil Oil Corporation to
ExxonMobil Oil Corporation

Dear Mr. Thompson

Effective June 1, 2001, Mobil Oil Corporation (MOC) changed its name to ExxonMobil Oil Corporation (EMOC). This was a name change only; EMOC is the same corporation as Mobil Oil Corporation, but with a new name. No facility or other asset was transferred from one corporation to another by virtue of the name change. Specifically, EMOC will remain the owner and operator of its existing exploration and production oil and gas properties and facilities, as well as relevant permits.

There is no change to the name of Exxon Mobil Corporation, the ultimate shareholder of EMOC.

Please note the change of name of MOC to ExxonMobil Oil Corporation in your records pertaining to any MOC permits.

The Federal Identification Number for MOC (13-5401570) will remain the same for EMOC.

A copy of the Certification, Bond Rider and a list of wells are attached.

If you have any questions please feel free to call Joel Talavera at 713-431-1010

Very truly yours,

Charlotte H. Harper

Charlotte H. Harper
Permitting Supervisor

ExxonMobil Production Company
a division of Exxon Mobil Corporation,
acting for ExxonMobil Oil Corporation

United States Department of the Interior

BUREAU OF INDIAN AFFAIRS
~~XXXXXXXXXXXXXXX~~
Navajo Area Office
NAVAJO REGION
P.O. Box 1060
Gallup, New Mexico 87305-1060

IN REPLY REFER TO:

RRES/543

AUG 30 2001

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Charlotte H. Harper, Permitting Supervisor
Exxon Mobil Production Company
U. S. West
P. O. Box 4358
Houston, TX 77210-4358

Dear Ms. Harper:

This is to acknowledge receipt of your company's name change from Mobil Oil Corporation to ExxonMobil Oil Corporation effective June 1, 2001. The receipt of documents includes the Name Change Certification, current listing of Officers and Directors, Listing of Leases, Financial Statement, filing fees of $75.00 and a copy of the Rider for Bond Number 8027 31 97. There are no other changes.

Please note that we will provide copies of these documents to other concerned parties. If you need further assistance, you may contact Ms. Bertha Spencer, Realty Specialist, at (928) 871-5938.

Sincerely,

DENNIS DENETSONE

Regional Realty Officer

cc: BLM, Farmington Field Office w/enclosures
Navajo Nation Minerals Office, Attn: Mr. Akhtar Zaman, Director/w enclosures

MINERAL RESOURCES
ADM
NATV AM MIN COORD
SOLID MIN TEAM
PETRO MGMT TEAM
O & G INSPECT TEAM
ALL TEAM LEADERS
LAND RESOURCES
ENVIRONMENT
FILES

ExxonMobil Production Company
U.S. West
P.O. Box 4358
Houston, Texas 77210-4358

BB 7/12/2001
SN
543
File

June 27, 2001

ExxonMobil
Production

Certified Mail
Return Receipt Requested

RECEIVED
#477
JUL 9 - 2001
Navajo Region Office
RES - Minerals Section

Ms. Genni Denetsone
United States Department of the Interior
Bureau of Indian Affairs, Navajo Region
Real Estate Services
P. O. Box 1060
Gallup, New Mexico 87305-1060
Mail Code 543

Change of Name –
Mobil Oil Corporation to
ExxonMobil Oil Corporation

Dear Ms. Denetsone:

Effective June 1, 2001, Mobil Oil Corporation (MOC) changed its name to ExxonMobil Oil Corporation (EMOC). This was a name change only; EMOC is the same corporation as Mobil Oil Corporation, but with a new name. No facility or other asset was transferred from one corporation to another by virtue of the name change. Specifically, EMOC will remain the owner and operator of its existing exploration and production oil and gas properties and facilities, as well as relevant permits.

There is no change to the name of Exxon Mobil Corporation, the ultimate shareholder of EMOC.

Please note the change of name of MOC to ExxonMobil Oil Corporation in your records pertaining to any MOC permits.

The Federal Identification Number for MOC (13-5401570) will remain the same for EMOC.

Attached is the Name Change Certification, Current listing of Officers and Directors, Filing Fee of $75/-, Listing of Leases, Financial Statement and a copy of the Rider for Bond number 8027 31 97. The original Bond Rider has been sent to Ms. Barbar Davis at your Washington Office.

If you have any questions , please contact Alex Correa at (713) 431-1012.

Very truly yours,

Charlotte H. Harper

Charlotte H. Harper
Permitting Supervisor

Attachments

RECEIVED
JUL 05 2001
NAVAJO REGION OFFICE
BRANCH OF REAL ESTATE SERVICES

ExxonMobil Production Company
a division of Exxon Mobil Corporation,
acting for ExxonMobil Oil Corporation

NOTE: Check forwarded to Ella Isosi

Bureau of Indian Affairs
Navajo Region Office
Attn: RRES - Mineral and Mining Section
P.O. Box 1060
Gallup, New Mexico 87305-1060

Gentlemen:

The current listing of officers and director of ExxonMobil Oil Corporation (Name of Corporation), of New York (State) is as follows:

OFFICERS

President	F.A. Risch	Address	5959 Las Colinas Blvd. Irving, TX 75039
Vice President	K.T. Koonce	Address	800 Bell Street Houston, TX 77002
Secretary	F.L. Reid	Address	5959 Las Colinas Blvd. Irving, TX 75039
Treasure	B.A. Maher	Address	5959 Las Colinas Blvd. Irving, TX 75039

DIRECTORS

Name	D.D. Humphreys	Address	5959 Las Colinas Blvd. Irving, TX 75039
Name	P.A. Hanson	Address	5959 Las Colinas Blvd. Irving, TX 75039
Name	T.P. Townsend	Address	5959 Las Colinas Blvd. Irving, TX 75039
Name	B.A. Maher	Address	5959 Las Colinas Blvd. Irving, TX 75039
Name	F.A. Risch	Address	5959 Las Colinas Blvd. Irving, TX 75039

Sincerely,

Alex Correa

This is to certify that the above information pertaining to ExxonMobil Oil Corporation (Corporation) is trust and correct as evidenced by the records and accounts covering business for the State of Utah and in the custody of Corporation Service Company (Agent), Phone: 1 (800)927-9800, whose business address is One Utah Center, 201 South Main Street, Salt Lake City, Utah 84111-2218

(CORPORATE SEAL)

Signature

AGENT AND ATTORNEY IN FACT
Title

SAL

CERTIFICATION

I, the undersigned Assistant Secretary of ExxonMobil Oil Corporation. (formerly Mobil Oil Corporation), a corporation organized and existing under the laws of the State of New York, United States of America, DO HEREBY CERTIFY, That, the following is a true and exact copy of the resolutions adopted by the Board of Directors on May 22, 2001:

CHANGE OF COMPANY NAME

WHEREAS, the undersigned Directors of the Corporation deem it to be in the best interest of the Corporation to amend the Certificate of Incorporation of the Corporation to change the name and principal office of the Corporation:

NOW THEREFORE BE IT RESOLVED, That Article 1st relating to the corporate name is hereby amended to read as follows:

"1st The corporate name of said Company shall be,

ExxonMobil Oil Corporation",

FURTHER RESOLVED, That the amendment of the Corporation's Certificate of Incorporation referred to in the preceding resolutions be submitted to the sole shareholder of the Corporation entitled to vote thereon for its approval and, if such shareholder gives its written consent, pursuant to Section 803 of the Business Corporation Law of the State of New York, approving such amendment, the proper officers of the Corporation be, and they hereby are, authorized to execute in the name of the Corporation the Certificate of Amendment of Certificate of Incorporation, in the form attached hereto;

FURTHER RESOLVED, That the proper officers of the Corporation be and they hereby are authorized and directed to deliver, file and record in its behalf, the Certificate of Amendment of Certificate of Incorporation, and to take such action as may be deemed necessary or advisable to confirm and make effective in all respects the change of this Company's name to EXXONMOBIL OIL CORPORATION.

WITNESS, my hand and the seal of the Corporation at Irving, Texas, this 8th day of June, 2001.

D. A. Millican
Assistant Secretary

COUNTY OF DALLAS)
STATE OF TEXAS)
UNITED STATES OF AMERICA)
Sworn to and subscribed before me at Irving, Texas, U. S. A. on this the 8th day of June, 2001.

Janice M. Phillips
Notary Public

LISTING OF LEASES OF MOBIL OIL CORPORATION

	Lease Number
1)	14-20-0603-6504
2)	14-20-0603-6505
3)	14-20-0603-6506
4)	14-20-0603-6508
5)	14-20-0603-6509
6)	14-20-0603-6510
7)	14-20-0603-7171
8)	14-20-0603-7172A
9)	14-20-600-3530
10)	14-20-603-359
11)	14-20-603-368
12)	14-20-603-370
13)	14-20-603-370A
14)	14-20-603-372
15)	14-20-603-372A
16)	14-20-603-4495
17)	14-20-603-5447
18)	14-20-603-5448
19)	14-20-603-5449
20)	14-20-603-5450
21)	14-20-603-5451

6/1/01

CHUBB GROUP OF INSURANCE COMPANIES

[illegible] South, Suite [illegible], Houston, Texas [illegible]
[illegible] 713 937-4600 • Facsimile (713) 297-4750

NW Bond

FEDERAL INSURANCE COMPANY RIDER
to be attached to and form a part of

BOND NO 8027 31 97
wherein
Mobil Oil Corporation and Mobil Exploration and Producing U.S., Inc. is named as Principal and

FEDERAL INSURANCE COMPANY AS SURETY,

in favor of **United States of America, Department of the Interior Bureau of Indian Affairs**

in the amount of **$150,000.00**
bond date: 11/01/65

IT IS HEREBY UNDERSTOOD AND AGREED THAT effective **June 1, 2001** the name of the Principal is changed

FROM: **Mobil Oil Corporation and Mobil Exploration and Producing U.S., Inc.**

TO : **ExxonMobil Oil Corporation**

All other terms and conditions of this Bond are unchanged.

Signed, sealed and dated this 12th of June, 2001.

ExxonMobil Oil Corporation

By: _____

FEDERAL INSURANCE COMPANY

By: Mary Pierson
Mary Pierson, Attorney-in-fact

Chubb Surety | **POWER OF ATTORNEY** | **Federal Insurance Company, Vigilant Insurance Company, Pacific Indemnity Company** | **Attn.: Surety Department, 15 Mountain View Road, Warren, NJ 07059**

Know All by These Presents, That **FEDERAL INSURANCE COMPANY,** an Indiana corporation, **VIGILANT INSURANCE COMPANY,** a New York corporation, and **PACIFIC INDEMNITY COMPANY,** a Wisconsin corporation, do each hereby constitute and appoint R.F. Bobo, Mary Pierson, Philana Berros, and Jody E. Specht of Houston, Texas----------

each as their true and lawful Attorney-in-Fact to execute under such designation in their names and to affix their corporate seals to and deliver for and on their behalf as surety thereon or otherwise, bonds and undertakings and other writings obligatory in the nature thereof (other than bail bonds) given or executed in the course of business, and any instruments amending or altering the same, and consents to the modification or alteration of any instrument referred to in said bonds or obligations.

In Witness Whereof, said **FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY,** and **PACIFIC INDEMNITY COMPANY** have each executed and attested these presents and affixed their corporate seals on this 10th day of May, 2001.

Kenneth C. Wendel, Assistant Secretary

Frank E. Robertson, Vice President

STATE OF NEW JERSEY }
County of Somerset } ss.

On this 10th day of May, 2001, before me, a Notary Public of New Jersey, personally came Kenneth C. Wendel, to me known to be Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY, the companies which executed the foregoing Power of Attorney, and the said Kenneth C. Wendel being by me duly sworn, did depose and say that he is Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY and knows the corporate seals thereof, that the seals affixed to the foregoing Power of Attorney are such corporate seals and were thereto affixed by authority of the By-Laws of said Companies; and that he signed said Power of Attorney as Assistant Secretary of said Companies by like authority; and that he is acquainted with Frank E. Robertson, and knows him to be Vice President of said Companies; and that the signature of Frank E. Robertson, subscribed to said Power of Attorney is in the genuine handwriting of Frank E. Robertson, and was thereto subscribed by authority of said Companies and in deponent's presence.

Karen A. Price
Notary Public State of New Jersey
No. 2231647
Commission Expires Oct. 28, 2004

Notary Public

CERTIFICATION

Extract from the By-Laws of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY:

"All powers of attorney for and on behalf of the Company may and shall be executed in the name and on behalf of the Company, either by the Chairman or the President or a Vice President or an Assistant Vice President, jointly with the Secretary or an Assistant Secretary, under their respective designations. The signature of such officers may be engraved, printed or lithographed. The signature of each of the following officers: Chairman, President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary and the seal of the Company may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such power of attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached."

I, Kenneth C. Wendel, Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY (the "Companies") do hereby certify that

(i) the foregoing extract of the By-Laws of the Companies is true and correct,
(ii) the Companies are duly licensed and authorized to transact surety business in all 50 of the United States of America and the District of Columbia and are authorized by the U. S. Treasury Department; further, Federal and Vigilant are licensed in Puerto Rico and the U. S. Virgin Islands, and Federal is licensed in American Samoa, Guam, and each of the Provinces of Canada except Prince Edward Island; and
(iii) the foregoing Power of Attorney is true, correct and in full force and effect.

Given under my hand and seals of said Companies at Warren, NJ this 12th day of June, 2001.

Kenneth C. Wendel, Assistant Secretary

IN THE EVENT YOU WISH TO NOTIFY US OF A CLAIM, VERIFY THE AUTHENTICITY OF THIS BOND OR NOTIFY US OF ANY OTHER MATTER, PLEASE CONTACT US AT ADDRESS LISTED ABOVE, OR BY Telephone (908) 903-3485 Fax (908) 903-3656 e-mail: surety@chubb.com

15-10-0225 (Ed. 4-99) CONSENT

CERTIFICATE OF AMENDMENT

OF

CERTIFICATE OF INCORPORATION

OF

MOBIL OIL CORPORATION

(Under Section 805 of the Business Corporation Law)

Pursuant to the provisions of Section 805 of the Business Corporation Law, the undersigned President and Secretary, respectively, of Mobil Oil Corporation hereby certify:

FIRST: That the name of the corporation is MOBIL OIL CORPORATION and that said corporation was incorporated under the name of Standard Oil Company of New York.

SECOND: That the Certificate of Incorporation of the corporation was filed by the Department of State, Albany, New York, on the 10th day of August, 1882.

THIRD: That the amendments to the Certificate of Incorporation effected by this Certificate are as follows:

(a) Article 1st of the Certificate of Incorporation, relating to the corporate name, is hereby amended to read as follows:

"1st The corporate name of said Company shall be,

ExxonMobil Oil Corporation",

(b) Article 7th of the Certificate of Incorporation, relating to the office of the corporation is hereby amended to read as follows:

The office of the corporation within the State of New York is to be located in the County of Albany. The Company shall have offices at such other places as the Board of Directors may from time to time determine.

FOURTH: That the amendments to the Certificate of Incorporation were authorized by the Board of Directors followed by the holder of all outstanding shares entitled to vote on amendments to the Certificate of Incorporation by written consent of the sole shareholder dated May 22, 2001.

IN WITNESS WHEREOF, this Certificate has been signed this 22nd Day of May, 2001.

F. A. Risch, President

STATE OF TEXAS)
COUNTY OF DALLAS)

F. L. REID, being duly sworn, deposes and says that he is the Secretary of MOBIL OIL CORPORATION, the corporation mentioned and described in the foregoing instrument; that he has read and signed the same and that the statements contained therein are true.

F. L. REID, Secretary

SUBSCRIBED AND SWORN TO before me, the undersigned authority, on this the 22nd day of May, 2001.

[SEAL]

NOTARY PUBLIC, STATE OF TEXAS

JANICE M. PHILLIPS
MY COMMISSION EXPIRES
May 16, 2002

CSC 5184334741 06/01 '01 09:01 NO.411 02/02
CSC 06/01 '01 09:06 NO.159 04/04

F010601000187

CSC 45

CERTIFICATE OF AMENDMENT

OF

MOBIL OIL CORPORATION

Under Section 805 of the Business Corporation Law

SRC

100 cc

STATE OF NEW YORK
DEPARTMENT OF STATE
FILED JUN 01 2001
TAX $ SRC
BY: ny Albany

Filed by: EXXONMOBIL CORPORATION
(Name)

5959 Las Colinas Blvd.
(Mailing address)

Irving, TX 75039-2298
(City, State and Zip code)

Cust Ref # 1655781MPS

RECEIVED
JUL 05 2001
REAL ESTATE SERVICES

010601000195

State of New York }
Department of State } *ss:*

I hereby certify that the annexed copy has been compared with the original document in the custody of the Secretary of State and that the same is a true copy of said original.

Witness my hand and seal of the Department of State on JUN 01 2001

STATE OF NEW YORK
DEPARTMENT OF STATE
EXCELSIOR

Special Deputy Secretary of State

DOS-1266 (7/00)

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

ROUTING
1. GLH
2. CDW ✓
3. FILE

Change of Operator (Well Sold) — Designation of Agent

X Operator Name Change — Merger

The operator of the well(s) listed below has changed, effective: **06-01-2001**

FROM: (Old Operator):		**TO:** (New Operator):
MOBIL EXPLORATION & PRODUCTION		EXXONMOBIL OIL CORPORATION
Address: P O BOX DRAWER "G"		Address: U S WEST P O BOX 4358
CORTEZ, CO 81321		HOUSTON, TX 77210-4358
Phone: 1-(970)-564-5212		Phone: 1-(713)-431-1010
Account No. N7370		Account No. N1855

CA No. **Unit:** **RATHERFORD**

WELL(S)

NAME	SEC TWN RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
RATHERFORD UNIT 19-13	19-41S-24E	43-037-31719	6280	INDIAN	OW	P
RATHERFORD UNIT 19-24 (MULTI-LEG)	19-41S-24E	43-037-31754	6280	INDIAN	OW	P
RATHERFORD UNIT 20-44	20-41S-24E	43-037-30915	6280	INDIAN	OW	P
20-13	20-41S-24E	43-037-30917	6280	INDIAN	OW	P
20-24	20-41S-24E	43-037-30918	6280	INDIAN	OW	P
20-22	20-41S-24E	43-037-30930	6280	INDIAN	OW	P
RATHERFORD UNIT 20-33	20-41S-24E	43-037-30931	6280	INDIAN	OW	S
RATHERFORD UNIT 20-11	20-41S-24E	43-037-31049	6280	INDIAN	OW	S
RATHERFORD UNIT 20-31	20-41S-24E	43-037-31050	6280	INDIAN	OW	P
RATHERFORD UNIT 20-42	20-41S-24E	43-037-31051	6280	INDIAN	OW	P
RATHERFORD 20-68	20-41S-24E	43-037-31591	6280	INDIAN	OW	P
RATHERFORD 20-66	20-41S-24E	43-037-31592	6280	INDIAN	OW	P
21-23	21-41S-24E	43-037-13754	6280	INDIAN	OW	S
21-32	21-41S-24E	43-037-15755	6280	INDIAN	OW	S
21-34	21-41S-24E	43-037-15756	6280	INDIAN	OW	S
RATHERFORD UNIT 21-11	21-41S-24E	43-037-31052	6280	INDIAN	OW	S
RATHERFORD UNIT 21-24	21-41S-24E	43-037-31720	6280	INDIAN	OW	P
RATHERFORD UNIT 21-77	21-41S-24E	43-037-31758	6280	INDIAN	OW	S
RATHERFORD UNIT 28-11	28-41S-24E	43-037-30446	6280	INDIAN	OW	P
29-34	29-41S-24E	43-037-15340	6280	INDIAN	OW	P

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 06/29/2001
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 06/29/2001
3. The new company has been checked through the **Department of Commerce, Division of Corporations Database on:** 04/09/2002
4. Is the new operator registered in the State of Utah: YES Business Number: 579865-0143
5. If **NO**, the operator was contacted contacted on: N/A

6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BIA-06/01/01

7. **Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: 06/01/2001

8. **Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: N/A

9. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject,** for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 04/15/2002
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 04/15/2002
3. Bond information entered in RBDMS on: N/A
4. Fee wells attached to bond in RBDMS on: N/A

STATE WELL(S) BOND VERIFICATION:

1. State well(s) covered by Bond Number: N/A

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: N/A

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: 80273197

FEE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number N/A

2. The **FORMER** operator has requested a release of liability from their bond on: N/A
The Division sent response by letter on: N/A

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

COMMENTS:

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

ROUTING
1. DJJ
2. CDW

X Change of Operator (Well Sold) Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective: **6/1/2006**

FROM: (Old Operator):	**TO:** (New Operator):
N1855-ExxonMobil Oil Corporation	N2700-Resolute Natural Resources Company
PO Box 4358	1675 Broadway, Suite 1950
Houston, TX 77210-4358	Denver, CO 80202
Phone: 1 (281) 654-1936	Phone: 1 (303) 534-4600

CA No. **Unit:** **RATHERFORD**

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 4/21/2006
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 4/24/2006
3. The new company was checked on the **Department of Commerce, Division of Corporations Database on:** 6/7/2006
4. Is the new operator registered in the State of Utah: YES Business Number: 5733505-0143
5. If **NO**, the operator was contacted contacted on:

6a. (R649-9-2)Waste Management Plan has been received on: requested

6b. Inspections of LA PA state/fee well sites complete on: n/a

6c. Reports current for Production/Disposition & Sundries on: ok

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM n/a BIA not yet
8. **Federal and Indian Units:** The BLM or BIA has approved the successor of unit operator for wells listed on: not yet
9. **Federal and Indian Communization Agreements ("CA"):** The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject,** for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 6/12/2006

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 6/22/2006
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 6/22/2006
3. Bond information entered in RBDMS on: n/a
4. Fee/State wells attached to bond in RBDMS on: n/a
5. Injection Projects to new operator in RBDMS on: 6/22/2006
6. Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: n/a
2. Indian well(s) covered by Bond Number: PA002769
3. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number n/a

a. The **FORMER** operator has requested a release of liability from their bond on: n/a
The Division sent response by letter on: n/a

LEASE INTEREST OWNER NOTIFICATION:

4. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

COMMENTS:

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:	See attached list
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	Navajo Tribe
7. UNIT or CA AGREEMENT NAME:	Ratherford Unit
8. WELL NAME and NUMBER:	See attached list
9. API NUMBER:	Attached
10. FIELD AND POOL, OR WILDCAT:	Greater Aneth

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER Unit Agreement

2. NAME OF OPERATOR: Resolute Natural Resources Company N2700

3. ADDRESS OF OPERATOR: 1675 Broadway, Suite 1950 CITY Denver STATE CO ZIP 80202 PHONE NUMBER: (303) 534-4600

4. LOCATION OF WELL
FOOTAGES AT SURFACE: See attached list COUNTY: San Juan
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: _____	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☑ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
_____	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER: _____
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective June 1, 2006 Exxon Mobil Oil Corporation resigns as operator of the Ratherford Unit. Also effective June 1, 2006 Resolute Natural Resources Company is designated as successor operator of the Ratherford Unit.

A list of affected producing and water source wells is attached. A separate of affected injection wells is being submitted with UIC Form 5, Transfer of Authority to Inject.

As of the effective date, bond coverage for the affected wells will transfer to BIA Bond # PA002769.

NAME (PLEASE PRINT) Dwight E Mallory TITLE Regulatory Coordinator

SIGNATURE Dwight E Mallory DATE 4/20/2006

(This space for State use only)

APPROVED 6/27/06
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

RECEIVED
APR 24 2006
DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ship Rock

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME: UTU68931A

1. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ OTHER

8. WELL NAME and NUMBER: Ratherford

2. NAME OF OPERATOR: ExxonMobil Oil Corporation N1855

9. API NUMBER: attached

3. ADDRESS OF OPERATOR: P.O. Box 4358 CITY Houston STATE TX ZIP 77210-4358

PHONE NUMBER: (281) 654-1936

10. FIELD AND POOL, OR WILDCAT: Aneth

4. LOCATION OF WELL

FOOTAGES AT SURFACE:

COUNTY: San Juan

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: 6/1/2006	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☑ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
Date of work completion:	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER:
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

ExxonMobil Oil Corporation is transferring operatorship of Greater Aneth field, Ratherford lease to Resolute Natural Resources Company. All change of operator notices should be made effective as of 7:00 AM MST on June 1, 2006.

Attached please find a listing of producers and water source wells included in the transfer.

NAME (PLEASE PRINT) Laurie Kilbride TITLE Permitting Supervisor

SIGNATURE Laurie B. Kilbride DATE 4/19/2006

(This space for State use only)

APPROVED 6/27/06
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

RECEIVED
APR 21 2006
DIV. OF OIL, GAS & MINING

(5/2000)

Ratherford Unit - Producer Well List

minus P&A's

Lease	Number	API #	Status	Lease #	Location					
					Sec	T	R	QTR/QTR	NSFoot	EWFoot
Ratherford	01-14	430373116200S1	Producing	1420603246A	1	41S	23E	SWSW	0660FSL	0660FWL
Ratherford	01-34	430371638501S1	SI	1420603246A	1	41S	23E	SWSE	1133FSL	1980FEL
Ratherford	11-41	430373154400S1	Producing	1420603246A	11	41S	23E	NENE	0860FNL	0350FEL
Ratherford	11-43	430373162201S1	Producing	1420603246A	11	41S	23E	NESE	1980FSL	0660FEL
Ratherford	12-12	430373119000S1	Producing	1420603246A	12	41S	23E	SWNW	1850FNL	0660FWL
Ratherford	12-14	430371584400S1	SI	1420603246A	12	41S	23E	SWSW	0660FSL	4622FEL
Ratherford	12-21	430373120100S1	Producing	1420603246A	12	41S	23E	NENW	0660FNL	1980FWL
Ratherford	12-23	430371584601S1	Producing	1420603246A	12	41S	23E	NESW	1958FSL	3300FEL
Ratherford	12-32	430373120300S1	Producing	1420603246A	12	41S	23E	SWNE	1820FNL	1820FEL
Ratherford	12-34	430373112600S1	Producing	1420603246A	12	41S	23E	SWSE	0675FSL	1905FEL
Ratherford	12-43	430373120200S1	SI	1420603246A	12	41S	23E	NESE	2100FSL	0660FEL
Ratherford	13-12	430373112701S1	Producing	1420603247A	13	41S	23E	SWNW	1705FNL	0640FWL
Ratherford	13-14	430373158900S1	Producing	1420603247A	13	41S	23E	SWSW	0660FSL	0660FWL
Ratherford	13-21	430373112801S1	SI	1420603247A	13	41S	23E	NENW	0660FNL	1920FWL
Ratherford	13-23	430373112900S1	Producing	1420603247A	13	41S	23E	NESW	1980FSL	1930FWL
Ratherford	13-34	430373113001S1	Producing	1420603247A	13	41S	23E	SWSE	0660FSL	1980FEL
Ratherford	13-41	430371585601S1	Producing	1420603247A	13	41S	23E	NENE	660FNL	660FEL
Ratherford	13-43	430373113100S1	Producing	1420603247A	13	41S	23E	NESE	1700FSL	0960FEL
Ratherford	14-32	430371585801S1	Producing	1420603247A	14	41S	23E	SWNE	2130FNL	1830FEL
Ratherford	14-41	430373162300S1	Producing	1420603247A	14	41S	23E	NENE	0521FNL	0810FEL
Ratherford	24-32	430373159300S1	Producing	1420603247A	24	41S	23E	SWNE	2121FNL	1846FEL
Ratherford	24-41	430373113200S1	Producing	1420603247A	24	41S	23E	NENE	0660FNL	0710FEL
Ratherford	17-11	430373116900S1	Producing	1420603353	17	41S	24E	NWNW	1075FNL	0800FWL
Ratherford	17-13	430373113301S1	Producing	1420603353	17	41S	24E	NWSW	2100FSL	0660FWL
Ratherford	17-22	430373117001S1	Producing	1420603353	17	41S	24E	SENW	1882FNL	1910FWL
Ratherford	17-24	430373104400S1	Producing	1420603353	17	41S	24E	SESW	0720FSL	1980FWL
Ratherford	17-31	430373117800S1	Producing	1420603353	17	41S	24E	NWNE	0500FNL	1980FEL
Ratherford	17-33	430373113400S1	Producing	1420603353	17	41S	24E	NWSE	1980FSL	1845FEL
Ratherford	17-42	430373117700S1	Producing	1420603353	17	41S	24E	SENE	1980FNL	0660FEL
Ratherford	17-44	430371573201S1	Producing	1420603353	17	41S	24E	SESE	0660FSL	0660FEL
Ratherford	18-11	430371573300S1	SI	1420603353	18	41S	24E	NWNW	0720FNL	0730FWL
Ratherford	18-13	430371573401S1	Producing	1420603353	18	41S	24E	NWSW	1980FSL	0500FWL
Ratherford	18-22	430373123600S1	Producing	1420603353	18	41S	24E	SENW	2200FNL	2210FWL
Ratherford	18-24	430373107900S1	Producing	1420603353	18	41S	24E	SESW	0760FSL	1980FWL
Ratherford	18-31	430373118101S1	Producing	1420603353	18	41S	24E	NWNE	0795FNL	2090FEL
Ratherford	18-33	430373113501S1	Producing	1420603353	18	41S	24E	NWSE	1870FSL	1980FEL
Ratherford	18-42	430373118200S1	Producing	1420603353	18	41S	24E	SENE	2120FNL	0745FEL
Ratherford	18-44	430373104500S1	SI	1420603353	18	41S	24E	SESE	0660FSL	0660FEL
Ratherford	19-11	430373108000S1	Producing	1420603353	19	41S	24E	NWNW	0660FNL	0660FWL
Ratherford	19-13	430373171900S1	Producing	1420603353	19	41S	24E	NWSW	1980FSL	0660FWL
Ratherford	19-22	430373104601S1	Producing	1420603353	19	41S	24E	SENW	1840FNL	1980FWL
Ratherford	19-24	430373175401S1	Producing	1420603353	19	41S	24E	SESW	0600FSL	1980FWL
Ratherford	19-31	430373104701S1	Producing	1420603353	19	41S	24E	NWNE	510FNL	1980FEL
Ratherford	19-33	430373104800S1	Producing	1420603353	19	41S	24E	NWSE	1980FSL	1980FEL
Ratherford	19-42	430373091600S1	Producing	1420603353	19	41S	24E	SENE	1880FNL	0660FEL
Ratherford	19-44	430373108100S1	Producing	1420603353	19	41S	24E	SESE	0660FSL	0660FEL
Ratherford	19-97	430373159600S1	Producing	1420603353	19	41S	24E	SENE	2562FNL	0030FEL
Ratherford	20-11	430373104900S1	Producing	1420603353	20	41S	24E	NWNW	0500FNL	0660FWL
Ratherford	20-13	430373091700S1	Producing	1420603353	20	41S	24E	NWSW	2140FSL	0500FWL
Ratherford	20-22	430373093000S1	Producing	1420603353	20	41S	24E	SENW	2020FNL	2090FWL
Ratherford	20-24	430373091800S1	Producing	1420603353	20	41S	24E	SESW	0820FSL	1820FWL

Ratherford Unit - Producer Well List

minus P&A's

Lease	Number	API #	Status	Lease #	Location					
					Sec	T	R	QTR/QTR	NSFoot	EWFoot
Ratherford	20-31	430373105001S1	Producing	1420603353	20	41S	24E	NWNE	0660FNL	1880FEL
Ratherford	20-33	430373093100S1	Producing	1420603353	20	41S	24E	NWSE	1910FSL	2140FEL
Ratherford	20-42	430373105100S1	Producing	1420603353	20	41S	24E	SENE	1980FNL	0660FEL
Ratherford	20-44	430373091501S1	Producing	1420603353	20	41S	24E	SESE	0620FSL	0760FEL
Ratherford	20-66	430373159201S1	Producing	1420603353	20	41S	24E	SWNW	1369FNL	1221FWL
Ratherford	20-68	430373159100S1	Producing	1420603353	20	41S	24E	NWSW	1615FSL	1276FWL
Ratherford	15-12	430371571501S1	Producing	1420603355	15	41S	24E	SWNW	1820FNL	0500FWL
Ratherford	15-22	430373044900S1	SI	1420603355	15	41S	24E	SENW	1980FNL	2050FWL
Ratherford	15-32	430371571700S1	Producing	1420603355	15	41S	24E	SWNE	1980FNL	1980FEL
Ratherford	15-33	430371571800S1	Producing	1420603355	15	41S	24E	NWSE	1650FSL	1980FEL
Ratherford	15-41	430371571900S1	TA	1420603355	15	41S	24E	NENE	0660FNL	0660FEL
Ratherford	15-42	430373044800S1	Producing	1420603355	15	41S	24E	SENE	2020FNL	0820FEL
Ratherford	16-13	430373116801S1	Producing	1420603355	16	41S	24E	NWSW	1980FSL	660FWL
Ratherford	16-32	430371572300S1	Producing	1420603355	16	41S	24E	SWNE	1980FNL	1980FEL
Ratherford	16-41	430371572500S1	Producing	1420603355	16	41S	24E	NENE	0660FNL	0660FEL
Ratherford	16-77	430373176800S1	Producing	1420603355	16	41S	24E	NESW	2587FSL	2410FWL
Ratherford	21-23	430371375400S1	Producing	1420603355	21	41S	24E	NESW	1740FSL	1740FWL
Ratherford	21-24	430373172001S1	SI	1420603355	21	41S	24E	SESW	487FSL	2064FWL
Ratherford	21-32	430371575500S1	SI	1420603355	21	41S	24E	SWNE	1880FNL	1980FEL
Ratherford	21-77	430373175801S1	SI	1420603355	21	41S	24E	NWSE	2511FSL	2446FEL
Ratherford	07-11	430373116300S1	Producing	1420603368	7	41S	24E	NWNW	0660FNL	0710FWL
Ratherford	07-13	430373116400S1	Producing	1420603368	7	41S	24E	NWSW	2110FSL	0740FWL
Ratherford	07-22	430373116500S1	Producing	1420603368	7	41S	24E	SENW	1980FNL	1980FWL
Ratherford	07-24	430373116600S1	Producing	1420603368	7	41S	24E	SESW	0880FSL	2414FWL
Ratherford	07-44	430373118900S1	SI	1420603368	7	41S	24E	SESE	0737FSL	0555FEL
Ratherford	08-12	430371599100S1	Producing	1420603368	8	41S	24E	SWNW	1909FNL	0520FWL
Ratherford	08-21	430371599300S1	Producing	1420603368	8	41S	24E	NENW	0616FNL	1911FWL
Ratherford	08-23	430371599400S1	Producing	1420603368	8	41S	24E	NESW	1920FSL	2055FWL
Ratherford	08-32	430371599500S1	Producing	1420603368	8	41S	24E	SWNE	1980FNL	1980FEL
Ratherford	08-34	430371599600S1	Producing	1420603368	8	41S	24E	SWSE	0660FSL	1980FEL
Ratherford	04-34	430371616400S1	Producing	14206034035	4	41S	24E	SWSE	0660FSL	1980FEL
Ratherford	11-14	430371616700S1	Producing	14206034037	11	41S	24E	SWSW	0660FSL	0660FWL
Ratherford	09-34	430371571100S1	SI	14206034043	9	41S	24E	SWSE	0660FSL	1980FEL
Ratherford	10-12	430371571200S1	Producing	14206034043	10	41S	24E	SWNW	1980FNL	0660FWL
Ratherford	10-14	430371571300S1	Producing	14206034043	10	41S	24E	SWSW	0510FSL	0710FWL
Ratherford	10-32	430371571400S1	TA	14206034043	10	41S	24E	SWNE	2080FNL	1910FEL
Ratherford	10-44	430373045100S1	TA	14206034043	10	41S	24E	SESE	0820FSL	0510FEL
Ratherford	29-11	430373105300S1	Producing	1420603407	29	41S	24E	NWNW	0770FNL	0585FWL
Ratherford	29-22	430373108200S1	Producing	1420603407	29	41S	24E	SENW	2130FNL	1370FWL
Ratherford	29-31	430373091401S1	Producing	1420603407	29	41S	24E	NWNE	0700FNL	2140FEL
Ratherford	29-33	430373093200S1	SI	1420603407	29	41S	24E	NWSE	1860FSL	1820FEL
Ratherford	29-34	430371534000S1	SI	1420603407	29	41S	24E	SWSE	0817FSL	2096FEL
Ratherford	29-42	430373093700S1	SI	1420603407	29	41S	24E	SENE	1850FNL	0660FEL
Ratherford	30-32	430371534200S1	Producing	1420603407	30	41S	24E	SWNE	1975FNL	2010FEL
Ratherford	28-11	430373044600S1	Producing	1420603409	28	41S	24E	NWNW	0520FNL	0620FWL

Ratherford Unit - Producer Well List

minus P&A's

Lease	Number	API #	Status	Lease #	Location					
					Sec	T	R	QTR/QTR	NSFoot	EWFoot
Ratherford	09-12	430371512600S1	Producing	14206035045	9	41S	24E	SWNW	1865FNL	0780FWL
Ratherford	09-14	430371512700S1	Producing	14206035046	9	41S	24E	SWSW	0695FSL	0695FWL
Ratherford	04-14	430371616300S1	Producing	14206035446	4	41S	24E	SWSW	0500FSL	0660FWL
Ratherford	03-12	430371562000S1	Producing	14206036506	3	41S	24E	SWNW	2140FNL	0660FWL

Water Source Wells (Feb 2006)

RU	S1	4303700001	Active
RU	S2	4303700002	Active
RU	S3	4303700003	Active
RU	S4	4303700004	Active
RU	S5	4303700005	Active
RU	S6	4303700006	Active
RU	S7	4303700007	Active
RU	S8	4303700008	Active
RU	S9	4303700009	Active
RU	S10	4303700010	Active
RU	S11	4303700011	Active
RU	S12	4303700012	Active
RU	S13	4303700013	Active
RU	S14	4303700014	Active
RU	S16	4303700016	Active
RU	S17	4303700017	Active

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3
AMENDED REPORT ☑

APPLICATION FOR PERMIT TO DRILL

1. WELL NAME and NUMBER 20-22H	
2. TYPE OF WORK DRILL NEW WELL ○ REENTER P&A WELL ○ DEEPEN WELL ●	**3. FIELD OR WILDCAT** GREATER ANETH
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO	**5. UNIT or COMMUNITIZATION AGREEMENT NAME** RATHERFORD
6. NAME OF OPERATOR RESOLUTE NATURAL RESOURCES	**7. OPERATOR PHONE** 303 534-4600
8. ADDRESS OF OPERATOR 1675 Boradway Ste 1950, Denver, CO, 80202	**9. OPERATOR E-MAIL** pflynn@resoluteenergy.com
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) 14-20-603-353	**11. MINERAL OWNERSHIP** FEDERAL ○ INDIAN ● STATE ○ FEE ○
	12. SURFACE OWNERSHIP FEDERAL ○ INDIAN ● STATE ○ FEE ○
13. NAME OF SURFACE OWNER (if box 12 = 'fee')	**14. SURFACE OWNER PHONE (if box 12 = 'fee')**
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')	**16. SURFACE OWNER E-MAIL (if box 12 = 'fee')**
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN') Navajo	**18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS** YES ○ (Submit Commingling Application) NO ●
	19. SLANT VERTICAL ○ DIRECTIONAL ○ HORIZONTAL ●

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	2004 FNL 2049 FWL	SENW	20	41.0 S	24.0 E	S
Top of Uppermost Producing Zone	2004 FNL 2049 FWL	SENW	20	41.0 S	24.0 E	S
At Total Depth	2004 FNL 2049 FWL	SENW	20	41.0 S	24.0 E	S

21. COUNTY SAN JUAN	**22. DISTANCE TO NEAREST LEASE LINE (Feet)** 3190	**23. NUMBER OF ACRES IN DRILLING UNIT** 12950
	25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 230	**26. PROPOSED DEPTH** MD: 7708 TVD: 5547
27. ELEVATION - GROUND LEVEL 4778	**28. BOND NUMBER** B001263	**29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE** lease produced water

Hole, Casing, and Cement Information

String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
SURF	12.25	9.625	0 - 1610	40.0	K-55 Casing/Tubing	0.0	Class B	363	2.19	0.0
PROD	9.5	7	0 - 5690	20.0	K-55 Casing/Tubing	0.0	Class B	700	1.88	0.0

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES

☑ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	☑ COMPLETE DRILLING PLAN
☐ AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	☐ FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
☑ DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	☑ TOPOGRAPHICAL MAP

NAME Dwight Mallory	**TITLE** EH&S Corrdinator	**PHONE** 303 534-4600
SIGNATURE	**DATE** 08/31/2011	**EMAIL** dmallory@resoluteenergy.com
API NUMBER ASSIGNED 43037309300000	**APPROVAL**	Permit Manager

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API Well Number: 43037309300000

LOCATION OF LATERAL NUMBER 1	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
Location At Kickoff Point Depth:	2004 FNL 2049 FWL	SENW	20	41.0 S	24.0 E	S
Top of Uppermost Producing Zone	2004 FNL 2049 FWL	SENW	20	41.0 S	24.0 E	S
At Total Depth	1385 FNL 1394 FWL	SENW	20	41.0 S	24.0 E	S

COUNTY SAN JUAN	**DISTANCE TO NEAREST LEASE LINE (Feet)** 3190
DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 230	**PROPOSED DEPTH** MD: 7708 TVD: 5547

Hole, Casing, and Cement Information

String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
OPEN	6.5	0	5372 - 6393	0.0	No Pipe Used	10.2	No Used	0	0.0	0.0

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Resolute Natural Resources

Ratherford Unit 20-22H Drilling Plan

Project Overview

The proposed operation is to exit the existing wellbore casing and drill two 6 ½" open-hole horizontal laterals in the Desert Creek

Well Location

Surface Location:	2004' FNL 2049' FWL
	Sec. 20 T41S R24E
	San Juan County, Utah
Surface Elevation - GL:	4,778'
Proposed Depth:	Lateral #1 5542'TVD, 6393'MD
	Lateral #2 5547'TVD, 7708'MD

Formation Tops - Depth to Oil, Gas, Water & Minerals

Age / Comments	Formation	*	TVD	Subsea
Triassic	Navajo	w	**715'**	**4,063'**
Triassic	Chinle		**1,570'**	**3,208'**
Permian	Cutler Fm	w	**2,510'**	**2,268'**
Pennsylvanian	Upper Ismay		**5,405'**	(627)'
Pennsylvanian	Lower Ismay	o	**5,500'**	(722)'
Pennsylvanian	Gothic Shale		**5,549'**	(771)'
Pennsylvanian	Desert Creek IA	O/g/w	**5,566'**	(774)'
Pennsylvanian	Desert Creek IIA	O/g/w	5**,653'**	(861)'
	Existing Total Depth		5,690'	(913)'

* G = Gas, O = Oil, W = Water; Capitals = Primary, Small Case = Secondary Targets

Well Control – BOPE Plan

Blowout preventer equipment (BOPE) as discussed below will be installed and tested prior to drilling of the surface casing shoe and for each subsequent phase of drilling operations. Accumulators will be tested for pre-charge pressure and for holding pressure on the manifold prior to connection to the stack. Annular BOPs will be tested on nipple up and every 7 days thereafter, first to 200 psi, to simulate field well control situations, and then to the rated working pressure. Each test will be held for 15 minutes. The choke manifold will be operated and circulated through for kill rate pressures with each change of bottom hole assembly (BHA), but at least daily, using 2 slow pump rates, one at idle and one 10 strokes above that. All BOPE testing will be recorded and a copy of the pressure charts maintained with the tour sheet or drilling log.

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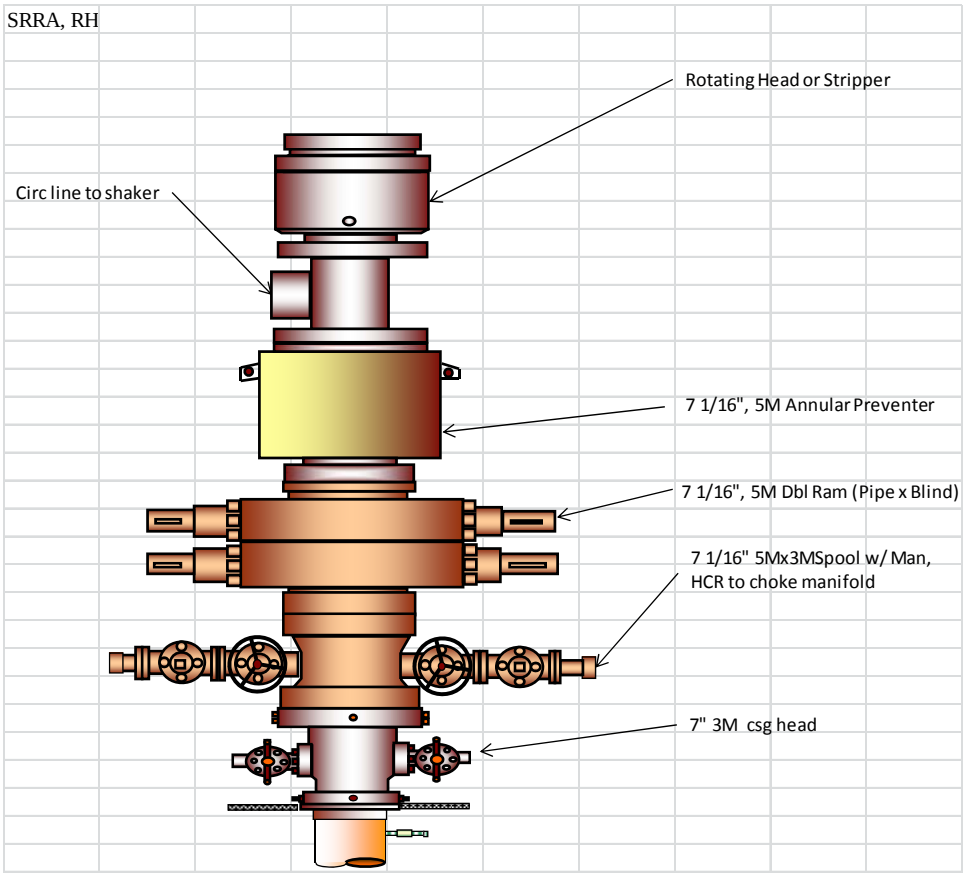
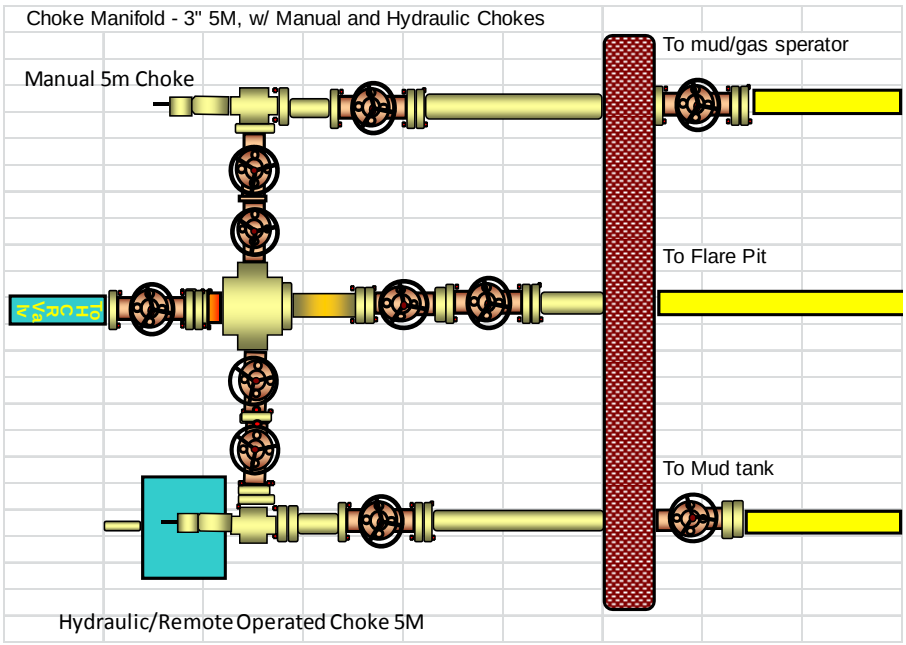
Production Casing BOPE System – 5M



Choke Manifold System – 5M



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Casing and Cement

Current Casing Set – 1983

Conductor Casing	13 3/8”, K55, 48#, Set @ 133’	Circ Cmt to Surface 11/18/83
Surface Casing	9 5/8”, K55, 40#, Set @ 1610’	Circ Cmt to Surface 11/28/83
Production Casing	7”, K55-23# & N80-26#, Set @ 5690’	Cmt w/ 700sxs confirm Cmt top @ 2820’ CBL 11/30/83

The proposed laterals will be open-hole completions.

Circulation Medium

Drilling fluids as specified in the table below will be used to maintain well control during drilling. Sufficient quantities of drilling fluids and additives will be kept onsite and tests to determine density, viscosity, gel strength, filtration, and pH will be performed daily. Kill Weight Brine (10 ppg) will be on hand in volume to kill well if necessary.

KOP - TD (6393'-7708')	Hole size 6 1/8"		
Mud Properties	Minimum	Maximum	Units
Mud Weight	8.9	10.2	#/gal
Drill Solids	4	6	Percent
pH	9	10	
Plastic Viscosity	4	10	
Yield Point	6	12	
Funnel Viscosity	35	40	sec/qt
Fluid Loss	12	15	cc/30 min
Chemicals Used: HEC Polymers (Viscosity/Yield), drispac (water loss and), caustic soda (PH), XLRate (ROP Enhancer), Drill Beads (Torq)			

Drilling Tools

Conventional rotary drilling tools will be used to drill the proposed well. This will include Tri-Cone roller bits as well as PDCs in conjunction with nominal sized Drill collars appropriate to hole size and weight on bit needs. Conventional Drill Pipe will be used for all drilling operations appropriate to hole size.

5327'-6393' Lateral #1				
Tool	Size	Length-Ft	Weight-lbs	Description
Bit	6 1/8	1		TCI Tricone bit
Mud Motor	4 3/4	12		Mud motor
Drill Collars	4 3/4	70		Monel DC for MWD
5327'-7708' Lateral #2				
Bit	6 1/8	1		TCI Tricone bit
Drill Collars	4 3/4	12		Mud motor
Drill Collars	4 3/4	70		Monel DC for MWD

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Testing, Coring, Logging

A gyroscopic survey will be performed prior to horizontal drilling activities to ensure relative location of KOP.

Pressures, Temperatures, LCSz, H2S

The Ismay and Desert Creek zones are expected to be normally pressured as a result of the ongoing production operations in this well. Current pressures are anticipated to be less than 2,545 psi. There are no Temperature anomalies in the area.

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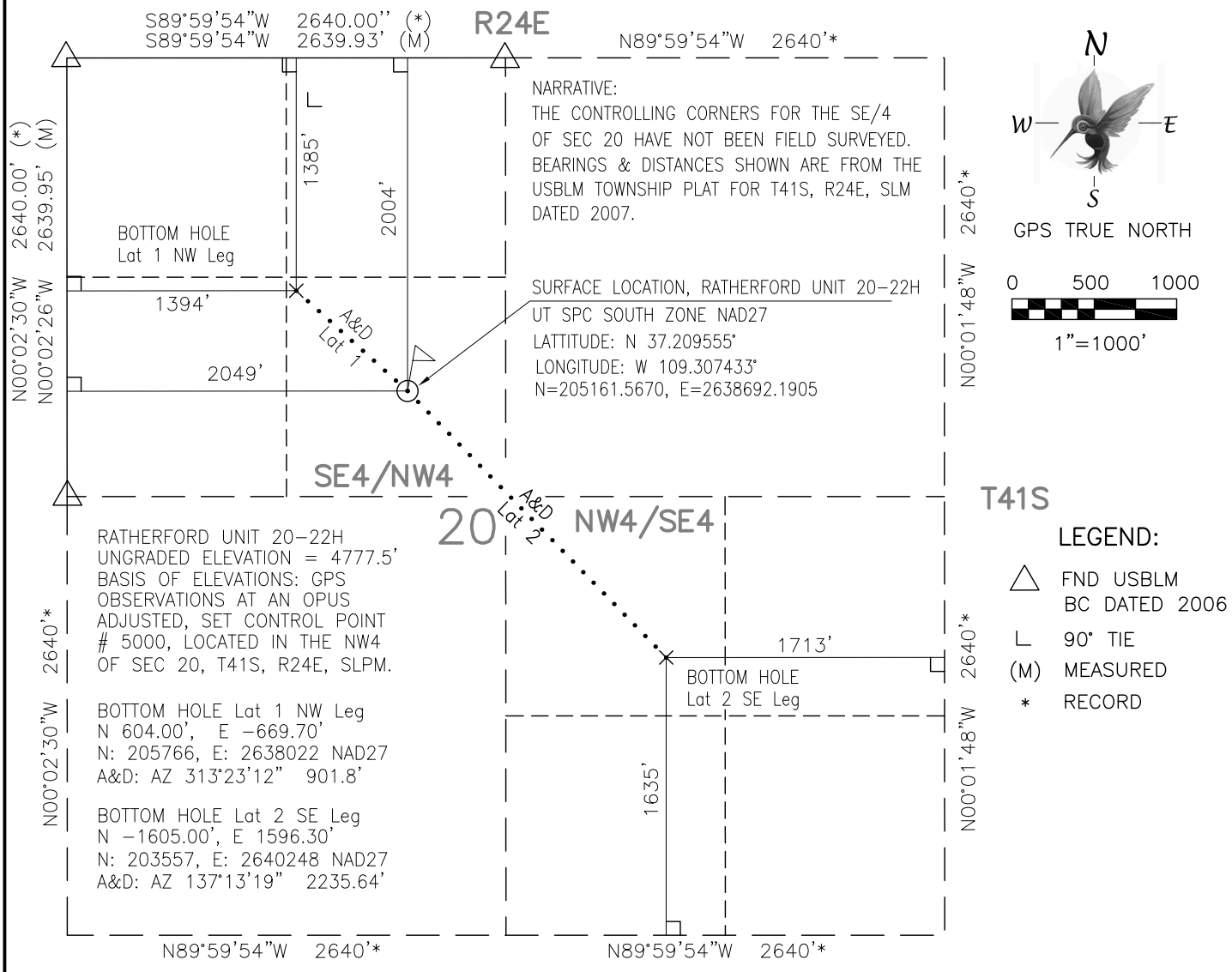
Ratherford Unit 20-22H Well Location



CERTIFICATE:

I, Gerald G. Huddleston, do hereby certify that I am a registered Utah land surveyor holding certificate number 161297 as prescribed under the laws of the State of Utah, and I further certify that under authority of the owner I have surveyed the Ratherford Unit 20-22H as shown hereon and that the same is correct and true to the best of my knowledge and belief.

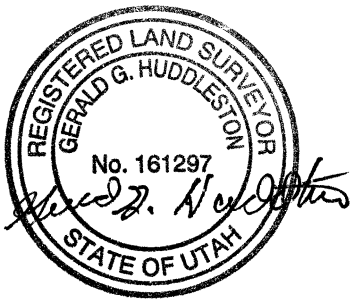


EXHIBIT A

WELL HEAD FOOTAGE: 2004' FNL 2049' FWL	RESOLUTE NATURAL RESOURCES
SEC 20, T41S, R24E, SLPM, SAN JUAN COUNTY, UT	
ELEVATION: 4778.8 AT FLANGE (NAVD88)	SURVEYED: 03/07/11
NW LEG BH FOOTAGE: 1385' FNL 1394' FWL	DRAWN BY: GEL | DATE: 03/10/11 | FILE:
SE LEG BH FOOTAGE: 1635' FSL 1713' FEL	REV1- 9/5/11, ADDED LATTERALS 1 & 2 BOTTOM HOLES

HUMMINGBIRD SURVEYING, LLC --- 1423 E. Main #146, Cortez, CO --- 970-570-5108

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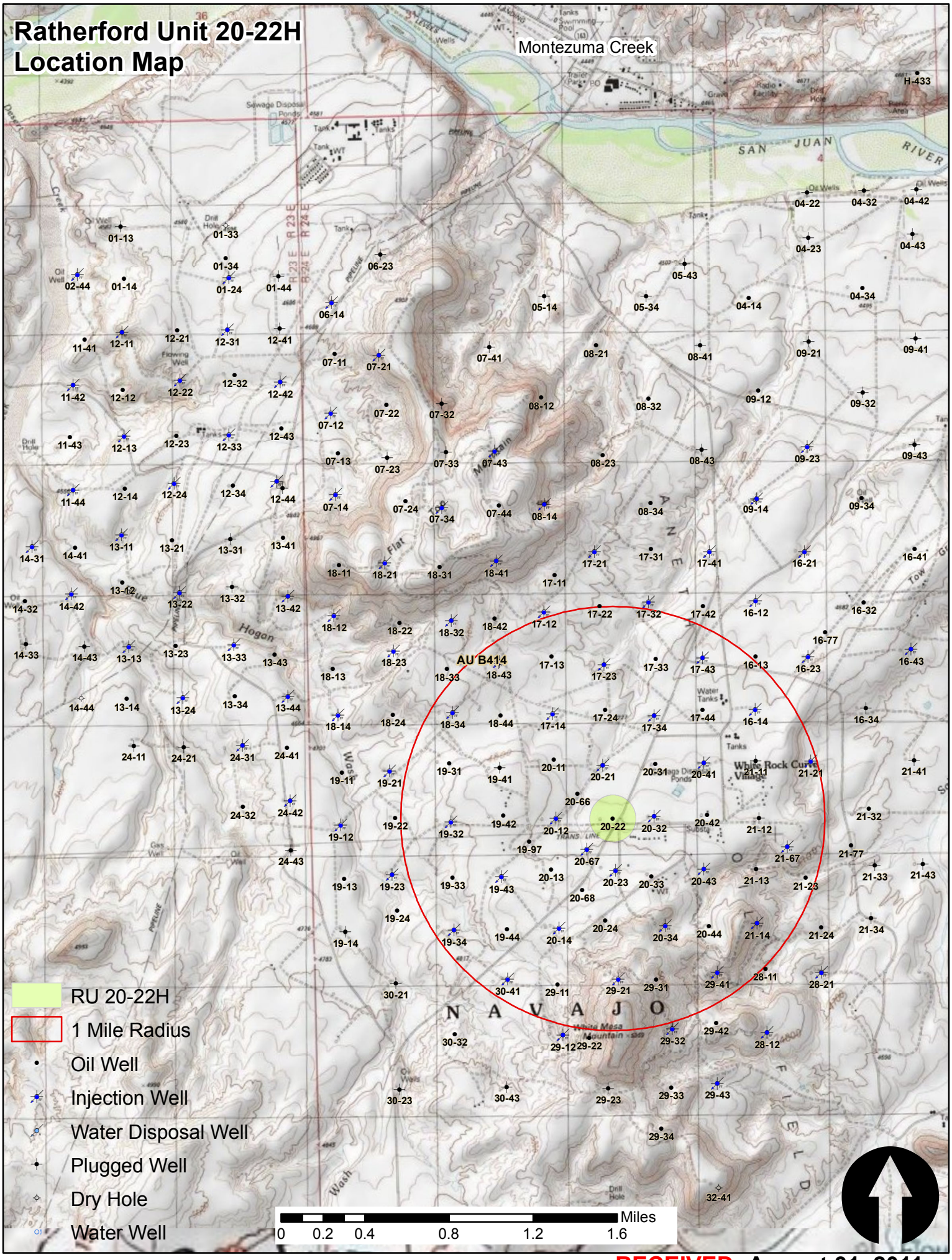
API Well Number: 43037309300000

Ratherford Unit 20-22H Location Map



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Drilling Services

Proposal

RESOLUTE NATURAL RESOURCES

RATHERFORD 20-22H

SAN JUAN CO, UTAH

WELL FILE: **LATERAL 1 NW LEG PLAN 4**
LATERAL 2 SE LEG PLAN 4

MAY 18, 2011

Weatherford International, Ltd.
P.O. Box 61028
Midland, TX 79711 USA
+1.432.561.8892 Main
+1.432.561.8895 Fax
www.weatherford.com

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API Well Number: 43037309300000

Resolute Natural Resources

Ratherford 20-22H
San Juan Co, Utah

Lat 1 NW Leg

Weatherford

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	5371.52	0.00	0.00	5371.52	0.00	0.00	0.00	0.00	0.00	
3	5386.52	3.00	312.05	5386.52	0.26	-0.29	20.00	312.05	0.39	
4	5391.52	3.00	312.05	5391.51	0.44	-0.49	0.00	0.00	0.65	
5	5690.31	92.50	312.05	5572.60	133.95	-148.52	29.95	0.00	200.00	
6	6392.81	92.50	312.05	5542.00	604.00	-669.70	0.00	0.00	901.84	Pbhl Lat 1 NW Leg

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
20-22H	0.00	0.00	205192.00	2638852.70	37°12'34.668N	109°18'22.355W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Pbhl Lat 1 NW Leg	5542.00	604.00	-669.70	205796.00	2638183.00	Point

FIELD DETAILS

San Juan Co, Utah (Nad 27)

Geodetic System: US State Plane Coordinate System 1927
Ellipsoid: NAD27 (Clarke 1866)
Zone: Utah, Southern Zone
Magnetic Model: IGRF2010

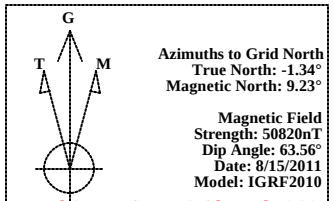
System Datum: Mean Sea Level
Local North: Grid North

SITE DETAILS

Ratherford 20-22H

Site Centre Northing: 205192.00
Easting: 2638852.70

Water Depth: 0.00
Positional Uncertainty: 0.00
Convergence: 1.34



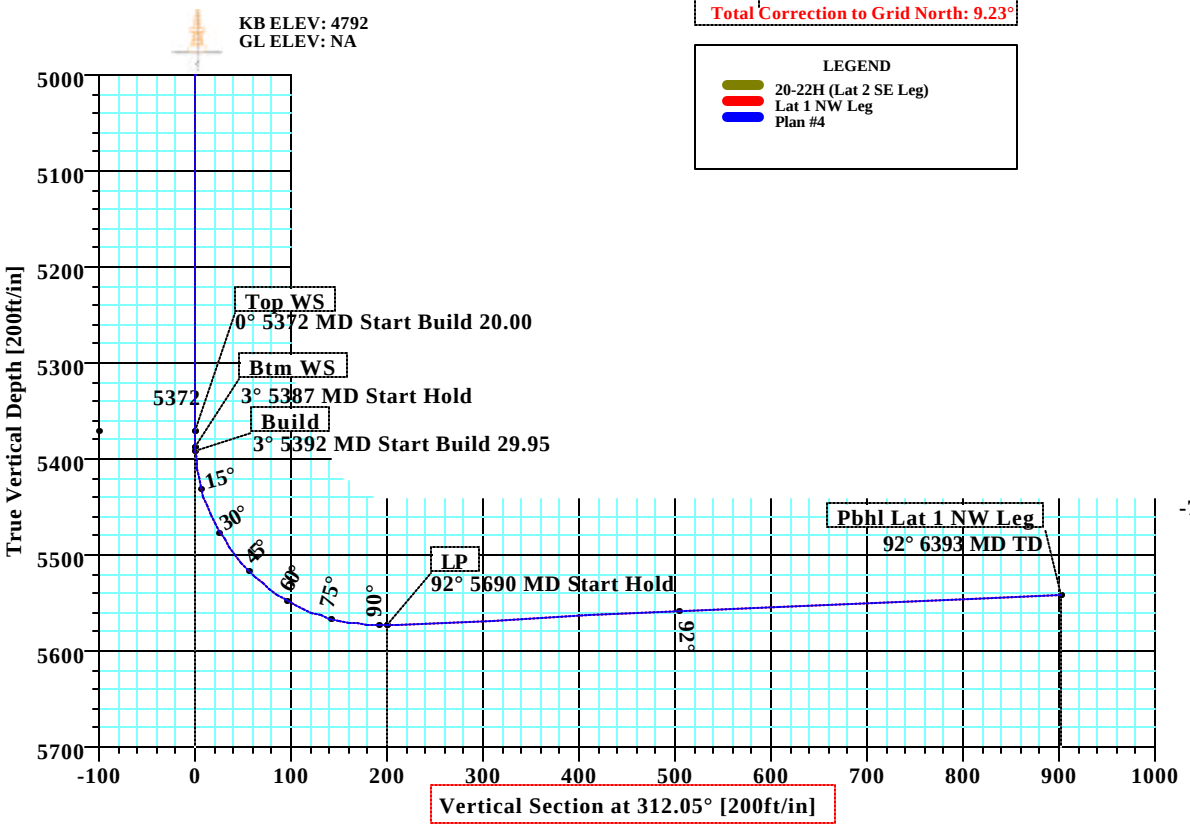
Azimuths to Grid North
True North: -1.34°
Magnetic North: 9.23°

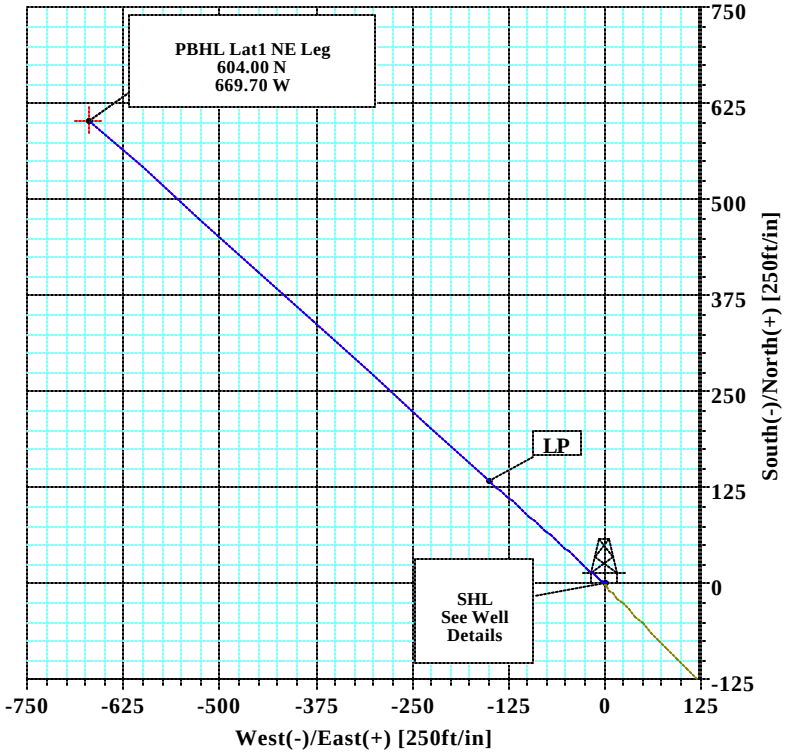
Magnetic Field
Strength: 50820nT
Dip Angle: 63.56°
Date: 8/15/2011
Model: IGRF2010

Total Correction to Grid North: 9.23°

LEGEND

20-22H (Lat 2 SE Leg)
Lat 1 NW Leg
Plan #4





Plan: Plan #4 (20-22H/Lat 1 NW Leg)

Created By: Russell W. Joyner Date: 5/18/2011

RECEIVED: August 31, 2011

Weatherford International Ltd.

WFT Plan Report - X & Y's

Company:	Resolute Natural Resources	**Date:** 5/18/2011	**Time:** 13:20:04	**Page:**	1
Field:	San Juan Co, Utah (Nad 27)	**Co-ordinate(NE) Reference:**	Well: 20-22H, Grid North		
Site:	Ratherford 20-22H	**Vertical (TVD) Reference:**	SITE 4792.0		
Well:	20-22H	**Section (VS) Reference:**	Well (0.00N,0.00E,312.05Azi)		
Wellpath:	Lat 1 NW Leg	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Plan:	Plan #4	**Date Composed:**	5/13/2011
		Version:	1
Principal:	Yes	**Tied-to:**	From Surface

Field: San Juan Co, Utah (Nad 27)

Map System:	US State Plane Coordinate System 1927	**Map Zone:**	Utah, Southern Zone
Geo Datum:	NAD27 (Clarke 1866)	**Coordinate System:**	Well Centre
Sys Datum:	Mean Sea Level	**Geomagnetic Model:**	IGRF2010

Site: Ratherford 20-22H

Site Position:		**Northing:**	205192.00 ft	**Latitude:**	37 12 34.668	N
From:	Map	**Easting:**	2638852.70 ft	**Longitude:**	109 18 22.355	W
Position Uncertainty:	0.00 ft			**North Reference:**	Grid	
Ground Level:	0.00 ft			**Grid Convergence:**	1.34 deg	

Well: 20-22H **Slot Name:**

Well Position:	**+N/-S**	0.00 ft	**Northing:**	205192.00 ft	**Latitude:**	37 12 34.668	N
	+E/-W	0.00 ft	**Easting :**	2638852.70 ft	**Longitude:**	109 18 22.355	W
Position Uncertainty:		0.00 ft					

Wellpath:	Lat 1 NW Leg			**Drilled From:**	Surface
				Tie-on Depth:	0.00 ft
Current Datum:	SITE	**Height**	4792.00 ft	**Above System Datum:**	Mean Sea Level
Magnetic Data:	8/15/2011			**Declination:**	10.57 deg
Field Strength:	50820 **nT**			**Mag Dip Angle:**	63.56 deg

Vertical Section:	**Depth From (TVD)** ft	**+N/-S** ft	**+E/-W** ft	**Direction** deg
	0.00	0.00	0.00	312.05

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5371.52	0.00	0.00	5371.52	0.00	0.00	0.00	0.00	0.00	0.00	
5386.52	3.00	312.05	5386.52	0.26	-0.29	20.00	20.00	0.00	312.05	
5391.52	3.00	312.05	5391.51	0.44	-0.49	0.00	0.00	0.00	0.00	
5690.31	92.50	312.05	5572.60	133.95	-148.52	29.95	29.95	0.00	0.00	
6392.81	92.50	312.05	5542.00	604.00	-669.70	0.00	0.00	0.00	0.00	Pbhl Lat 1 NW Leg

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
5300.00	0.00	0.00	5300.00	0.00	0.00	0.00	0.00	205192.00	2638852.70	
5371.52	0.00	0.00	5371.52	0.00	0.00	0.00	0.00	205192.00	2638852.70	Top WS
5386.52	3.00	312.05	5386.52	0.26	-0.29	0.39	20.00	205192.26	2638852.41	Btm WS
5391.52	3.00	312.05	5391.51	0.44	-0.49	0.65	0.00	205192.44	2638852.21	Build
5400.00	5.54	312.05	5399.96	0.86	-0.95	1.29	29.95	205192.86	2638851.75	
5500.00	35.49	312.05	5492.56	24.07	-26.68	35.93	29.95	205216.07	2638826.02	
5600.00	65.45	312.05	5555.48	75.14	-83.31	112.19	29.95	205267.14	2638769.39	
5690.31	92.50	312.05	5572.60	133.95	-148.52	200.00	29.95	205325.95	2638704.18	LP
5700.00	92.50	312.05	5572.18	140.44	-155.71	209.69	0.00	205332.44	2638696.99	
5800.00	92.50	312.05	5567.82	207.35	-229.90	309.59	0.00	205399.35	2638622.80	
5900.00	92.50	312.05	5563.47	274.26	-304.09	409.50	0.00	205466.26	2638548.61	
6000.00	92.50	312.05	5559.11	341.17	-378.28	509.40	0.00	205533.17	2638474.42	
6100.00	92.50	312.05	5554.75	408.08	-452.47	609.31	0.00	205600.08	2638400.23	
6200.00	92.50	312.05	5550.40	474.99	-526.66	709.21	0.00	205666.99	2638326.04	
6300.00	92.50	312.05	5546.04	541.90	-600.85	809.12	0.00	205733.90	2638251.85	

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WFT Plan Report - X & Y's

Company:	Resolute Natural Resources	**Date:** 5/18/2011	**Time:** 13:20:04	**Page:**	2
Field:	San Juan Co, Utah (Nad 27)	**Co-ordinate(NE) Reference:**	Well: 20-22H, Grid North		
Site:	Ratherford 20-22H	**Vertical (TVD) Reference:**	SITE 4792.0		
Well:	20-22H	**Section (VS) Reference:**	Well (0.00N,0.00E,312.05Azi)		
Wellpath:	Lat 1 NW Leg	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
6392.81	92.50	312.05	5542.00	604.00	-669.70	901.84	0.00	205796.00	2638183.00	Pbhl Lat 1 NW Leg

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<---- Latitude ----> Deg	Min	Sec		<--- Longitude ---> Deg	Min	Sec	
Pbhl Lat 1 NW Leg			5542.00	604.00	-669.70	205796.00	2638183.00	37	12	40.793	N	109	18	30.456	W

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD ft	
5371.52	5371.52	Top WS
5386.52	5386.51	Btm WS
5391.52	5391.51	Build
5690.31	5572.60	LP
6392.80	5542.00	Pbhl Lat 1 NW Leg

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction

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API Well Number: 43037309300000

Resolute Natural Resources

Ratherford 20-22H
San Juan Co, Utah

Lat 2 SE Leg

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	135.88	0.00	0.00	0.00	0.00	0.00	0.00	
2	5327.19	0.00	135.88	5327.19	0.00	0.00	0.00	135.88	0.00	
3	5342.19	3.00	135.88	5342.18	-0.28	0.27	20.00	135.88	0.39	
4	5347.19	3.00	135.88	5347.18	-0.47	0.46	0.00	0.00	0.65	
5	5718.68	90.86	135.88	5576.74	-176.76	171.39	23.65	0.00	246.21	
6	7708.33	90.86	135.88	5547.00	-1605.00	1556.30	0.00	0.00	2235.64	Pbhl Lat 2 SE Leg

FIELD DETAILS

San Juan Co, Utah (Nad 27)

Geodetic System: US State Plane Coordinate System 1927
Ellipsoid: NAD27 (Clarke 1866)
Zone: Utah, Southern Zone
Magnetic Model: IGRF2010

System Datum: Mean Sea Level
Local North: Grid North

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
20-22H	0.00	0.00	205192.00	2638852.70	37°12'34.668N	109°18'22.355W	N/A

SITE DETAILS

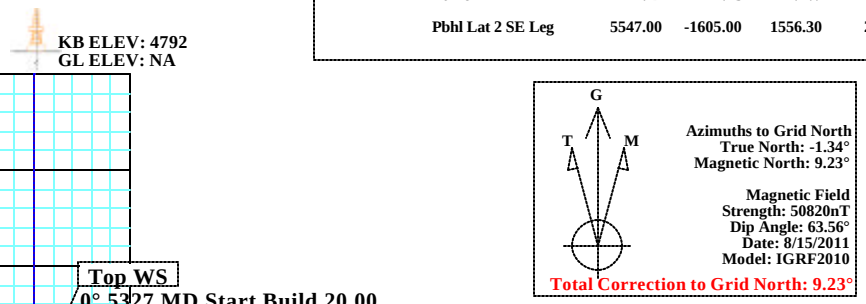
Ratherford 20-22H

Site Centre Northing: 205192.00
Easting: 2638852.70

Water Depth: 0.00
Positional Uncertainty: 0.00
Convergence: 1.34

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Pbhl Lat 2 SE Leg	5547.00	-1605.00	1556.30	203587.00	2640409.00	Point



Azimuths to Grid North
True North: -1.34°
Magnetic North: 9.23°

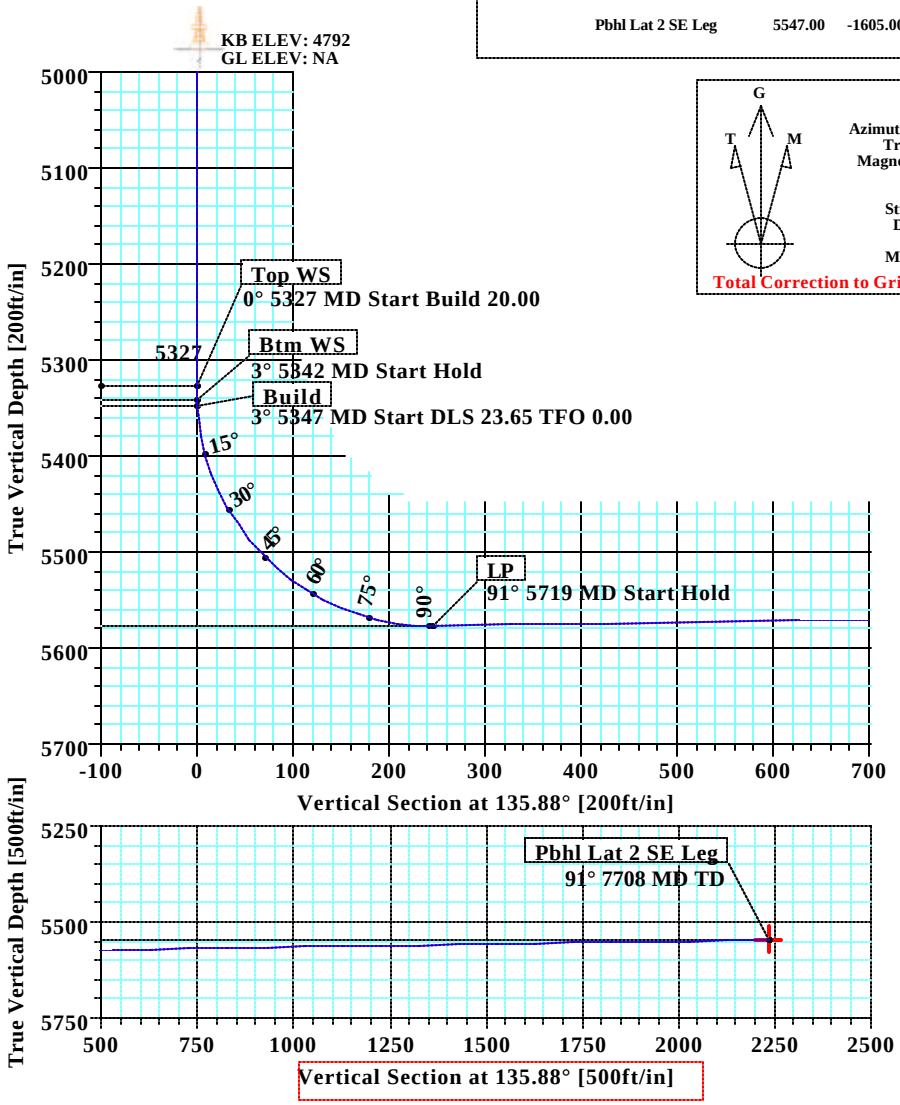
Magnetic Field
Strength: 50820nT
Dip Angle: 63.56°
Date: 8/15/2011
Model: IGRF2010

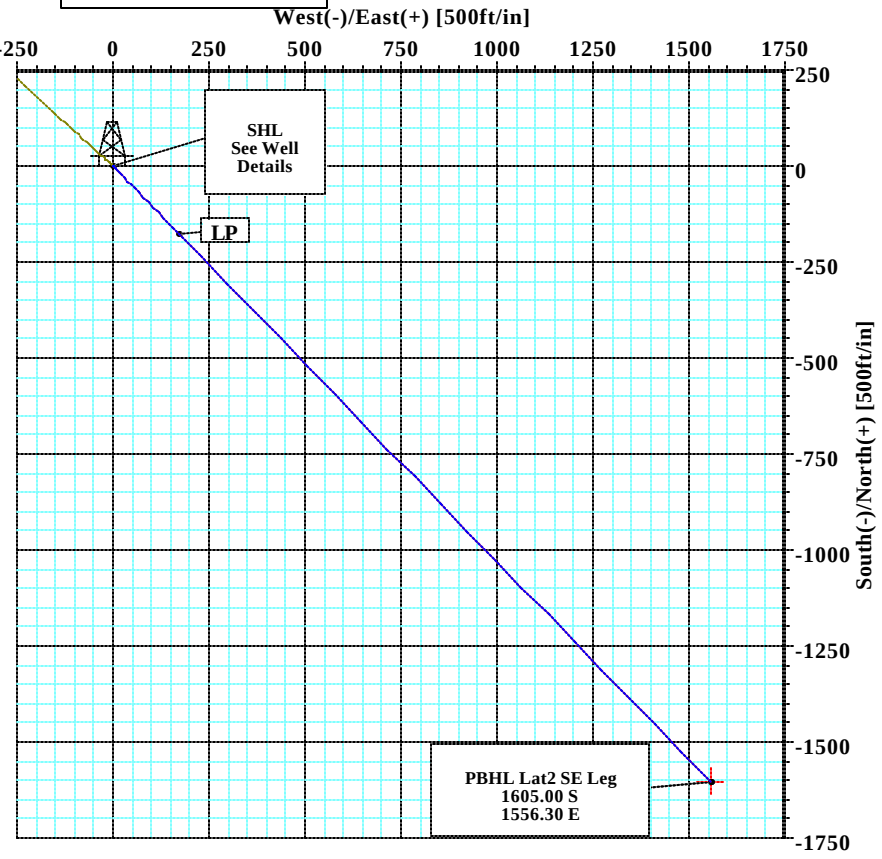
Total Correction to Grid North: 9.23°

LEGEND

20-22H (Lat 1 NW Leg)
Lat 2 SE Leg
Plan #4

Weatherford





Plan: Plan #4 (20-22H/Lat 2 SE Leg)

Created By: Russell W. Joyner Date: 5/18/2011

Weatherford International Ltd.

WFT Plan Report - X & Y's

Company:	Resolute Natural Resources	**Date:** 5/18/2011	**Time:** 13:31:14	**Page:**	1
Field:	San Juan Co, Utah (Nad 27)	**Co-ordinate(NE) Reference:**	Well: 20-22H, Grid North		
Site:	Ratherford 20-22H	**Vertical (TVD) Reference:**	SITE 4792.0		
Well:	20-22H	**Section (VS) Reference:**	Well (0.00N,0.00E,135.88Azi)		
Wellpath:	Lat 2 SE Leg	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Plan:	Plan #4	**Date Composed:**	5/13/2011
		Version:	1
Principal:	Yes	**Tied-to:**	From Surface

Field:	San Juan Co, Utah (Nad 27)		
Map System:	US State Plane Coordinate System 1927	**Map Zone:**	Utah, Southern Zone
Geo Datum:	NAD27 (Clarke 1866)	**Coordinate System:**	Well Centre
Sys Datum:	Mean Sea Level	**Geomagnetic Model:**	IGRF2010

Site:	Ratherford 20-22H				
Site Position:		**Northing:**	205192.00 ft	**Latitude:**	37 12 34.668 N
From:	Map	**Easting:**	2638852.70 ft	**Longitude:**	109 18 22.355 W
Position Uncertainty:	0.00 ft			**North Reference:**	Grid
Ground Level:	0.00 ft			**Grid Convergence:**	1.34 deg

Well:	20-22H				**Slot Name:**	
Well Position:	**+N/-S**	0.00 ft	**Northing:**	205192.00 ft	**Latitude:**	37 12 34.668 N
	+E/-W	0.00 ft	**Easting :**	2638852.70 ft	**Longitude:**	109 18 22.355 W
Position Uncertainty:		0.00 ft				

Wellpath:	Lat 2 SE Leg			**Drilled From:**	Lat 1 NW Leg
				Tie-on Depth:	0.00 ft
Current Datum:	SITE	**Height**	4792.00 ft	**Above System Datum:**	Mean Sea Level
Magnetic Data:	8/15/2011			**Declination:**	10.57 deg
Field Strength:	50820 nT			**Mag Dip Angle:**	63.56 deg

Vertical Section:	**Depth From (TVD)** ft	**+N/-S** ft	**+E/-W** ft	**Direction** deg
	0.00	0.00	0.00	135.88

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	135.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5327.19	0.00	135.88	5327.19	0.00	0.00	0.00	0.00	0.00	135.88	
5342.19	3.00	135.88	5342.18	-0.28	0.27	20.00	20.00	0.00	135.88	
5347.19	3.00	135.88	5347.18	-0.47	0.46	0.00	0.00	0.00	0.00	
5718.68	90.86	135.88	5576.74	-176.76	171.39	23.65	23.65	0.00	0.00	
7708.33	90.86	135.88	5547.00	-1605.00	1556.30	0.00	0.00	0.00	0.00	Pbhl Lat 2 SE Leg

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
5300.00	0.00	135.88	5300.00	0.00	0.00	0.00	0.00	205192.00	2638852.70	
5327.19	0.00	135.88	5327.19	0.00	0.00	0.00	0.00	205192.00	2638852.70	Top WS
5342.19	3.00	135.88	5342.18	-0.28	0.27	0.39	20.00	205191.72	2638852.97	Btm WS
5347.19	3.00	135.88	5347.18	-0.47	0.46	0.65	0.00	205191.53	2638853.16	Build
5400.00	15.49	135.88	5399.20	-6.55	6.35	9.12	23.65	205185.45	2638859.05	
5500.00	39.14	135.88	5487.42	-39.26	38.07	54.68	23.65	205152.74	2638890.77	
5600.00	62.79	135.88	5549.95	-94.63	91.76	131.81	23.65	205097.37	2638944.46	
5700.00	86.44	135.88	5576.29	-163.36	158.40	227.54	23.65	205028.64	2639011.10	
5718.68	90.86	135.88	5576.74	-176.76	171.39	246.21	23.65	205015.24	2639024.09	LP
5800.00	90.86	135.88	5575.52	-235.13	228.00	327.52	0.00	204956.87	2639080.70	
5900.00	90.86	135.88	5574.03	-306.92	297.61	427.51	0.00	204885.08	2639150.31	
6000.00	90.86	135.88	5572.53	-378.70	367.21	527.50	0.00	204813.30	2639219.91	
6100.00	90.86	135.88	5571.04	-450.48	436.82	627.49	0.00	204741.52	2639289.52	
6200.00	90.86	135.88	5569.54	-522.27	506.42	727.48	0.00	204669.73	2639359.12	
6300.00	90.86	135.88	5568.05	-594.05	576.03	827.47	0.00	204597.95	2639428.73	

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WFT Plan Report - X & Y's

Company:	Resolute Natural Resources	**Date:** 5/18/2011	**Time:** 13:31:14	**Page:**	2
Field:	San Juan Co, Utah (Nad 27)	**Co-ordinate(NE) Reference:**	Well: 20-22H, Grid North		
Site:	Ratherford 20-22H	**Vertical (TVD) Reference:**	SITE 4792.0		
Well:	20-22H	**Section (VS) Reference:**	Well (0.00N,0.00E,135.88Azi)		
Wellpath:	Lat 2 SE Leg	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
6400.00	90.86	135.88	5566.55	-665.83	645.63	927.46	0.00	204526.17	2639498.33	
6500.00	90.86	135.88	5565.06	-737.62	715.24	1027.45	0.00	204454.38	2639567.94	
6600.00	90.86	135.88	5563.56	-809.40	784.84	1127.43	0.00	204382.60	2639637.54	
6700.00	90.86	135.88	5562.07	-881.18	854.45	1227.42	0.00	204310.82	2639707.15	
6800.00	90.86	135.88	5560.58	-952.97	924.05	1327.41	0.00	204239.03	2639776.75	
6900.00	90.86	135.88	5559.08	-1024.75	993.66	1427.40	0.00	204167.25	2639846.36	
7000.00	90.86	135.88	5557.59	-1096.54	1063.26	1527.39	0.00	204095.46	2639915.96	
7100.00	90.86	135.88	5556.09	-1168.32	1132.87	1627.38	0.00	204023.68	2639985.57	
7200.00	90.86	135.88	5554.60	-1240.10	1202.47	1727.37	0.00	203951.90	2640055.17	
7300.00	90.86	135.88	5553.10	-1311.89	1272.08	1827.36	0.00	203880.11	2640124.78	
7400.00	90.86	135.88	5551.61	-1383.67	1341.69	1927.35	0.00	203808.33	2640194.39	
7500.00	90.86	135.88	5550.11	-1455.45	1411.29	2027.33	0.00	203736.55	2640263.99	
7600.00	90.86	135.88	5548.62	-1527.24	1480.90	2127.32	0.00	203664.76	2640333.60	
7700.00	90.86	135.88	5547.12	-1599.02	1550.50	2227.31	0.00	203592.98	2640403.20	
7708.33	90.86	135.88	5547.00	-1605.00	1556.30	2235.64	0.00	203587.00	2640409.00	Pbhl Lat 2 SE Leg

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<---- Latitude ----> Deg	Min	Sec		<--- Longitude ---> Deg	Min	Sec	
Pbhl Lat 2 SE Leg			5547.00	-1605.00	1556.30	203587.00	2640409.00	37	12	18.441	N	109	18	3.590	W

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD ft	
5327.19	5327.19	Top WS
5342.19	5342.18	Btm WS
5347.19	5347.18	Build
5718.68	5576.74	LP
7708.33	5547.00	Pbhl Lat 2 SE Leg

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction

RECEIVED: August 31, 2011

API Well Number: 43037309300000

Weatherford Drilling Services

GeoDec v5.03

Report Date:	May 13, 2011
Job Number:	
Customer:	Resolute Natural Resources
Well Name:	Ratherford 20-22H
API Number:	
Rig Name:	
Location:	San Juan Co, Utah (Nad 27)
Block:	
Engineer:	RWJ

US State Plane 1927
System: Utah South 4303 (NON-EXACT)
Projection: SPC27 Lambert
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
North/South 205192.000 USFT
East/West 2638852.700 USFT
Grid Convergence: 1.34°
Total Correction: +9.23°

Geodetic Latitude / Longitude
System: Latitude / Longitude
Projection: Geodetic Latitude and Longitude
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Latitude 37.2096299 DEG
Longitude -109.3062098 DEG

Geodetic Location WGS84		Elevation =	0.0 Meters
Latitude =	37.20963° N		37° 12 min 34.668 sec
Longitude =	109.30621° W		109° 18 min 22.355 sec

Magnetic Declination =	10.57°	[True North Offset]	
Local Gravity =	.9992 g	CheckSum =	6668
Local Field Strength =	50816 nT	Magnetic Vector X =	22241 nT
Magnetic Dip =	63.56°	Magnetic Vector Y =	4151 nT
Magnetic Model =	IGRF-2010g11	Magnetic Vector Z =	45502 nT
Spud Date =	Aug 15, 2011	Magnetic Vector H =	22625 nT

Signed:_____ Date:_____

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Resolute Natural Resources

Ratherford Unit 20-22H Surface Use Plan

Existing Roads

From the intersection of US Hwy 160 and Colorado St Hwy 41, travel North on Co. St Hwy 41 (changes to Utah St Hwy 162 at state boundary) for 26.6 miles to Montezuma Creek, Utah. Turn left on to Red Mesa Road, crossing the San Juan River and taking the first left which is a continuation of Red Mesa Road. Travel 3.6 miles to Phillips Camp Road and turn right to rig.

The lease road is part of the well location. It is native compacted gravel and clay. The lease road is currently maintained by REC and should need no additional construction. Any damage done to the road bed will be maintained by road grader as needed.

New or Reconstructed Access Roads

There will be no new road construction to the location. This is an existing producing well from which the horizontal laterals will be drilled after exiting existing casing.

Location of Existing Wells

(See map attachment)

Location of Existing and/or Proposed Production Facilities

The production facility is named as the Satellite 20 facility and is pre-existing. A buried line from the well head leaves the well site at the center of the South location line and moves to buried to the existing facility.

Location and Types of Water Supply

There is no anticipation for the need of fresh water usage on this well. The horizontal exits on this well will be drilled with produced brine water from Resolute Storage and WIP in the Ratherford field and located 2 miles to the North of this location or will be a combination of produced brine water and N2.

Construction Materials

The proposed operations will not result in surface disturbance beyond the originally approved drilling location. The construction activities described herein are necessary to convert areas of the well pad that have had interim reclamation done to convert the site to a producing well configuration back to a suitable location for the proposed horizontal recompletion. Equipment used for site preparation will include a dozer, track hoe and a motor grader.

The location is mainly native gravel and clay with a stabilizing topping of screened rock from a nearby private gravel pit. The top 6” of top soil from areas not in use as primary location (i.e. outside the 90’ radius environmental berm surrounding the well itself) will be stockpiled at the north east end of location. After the location is returned to the previously approved drilling dimensions, it will be topped by a road base mix from a private gravel pit in Montezuma Creek, Utah. All other materials needed for construction will be sourced from the existing location.

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This well is anticipated to be a producing well but, in the event the well proves unproductive the road base will be removed and transported as road base in other area of the Aneth Field. After horizontal drilling operations are complete the top soil will be redistributed over the area non-use area with reseeding as per the below mixture.

A closed loop drilling fluid system will be used to control drilling fluids so that a reserve pit will not be necessary. Only a small, lined "catch pit" of 30' x 30' x 6' deep will be used to accumulate any surface run off. This small pit will be lined and bird netting over hung. This pit will be closed immediately upon cessation of drilling operations.

A small flare pit will be dug in the north east corner of the location to be used as a flare pit. This pit will be approximately 30' long x 15' wide and 4' deep and will be lined and used only in the event of well control. This pit will be reclaimed immediately after the well is drilled and completed.

Upon cessation of drilling and completion activities a berm equaling a 90' radius (guy line pattern) will be created from existing location dirt. All other areas not to be used in the ongoing production activities will be reclaimed by spreading top soil from the spoil pile and reseeding as below.

Southwest Seed, Dolores, Colorado

Grass W:	Dropseed-Sand	VNS	2.34%
Shrub:	Saltbrush-four w	NM Native	12.18%
Shrub:	Saltbrush-four w	NM Native	14.82%\
Indian Rice Grass	Rimrock		9.09%
Shrub:	Shad Scale	Atriplex Confertifolia	30.70%
Grass C:	Needle & Thread	VNS	17.81%
Shrub:	Cliffrose	Cowania Mexicana	7.26%

Methods for Handling Waste

Drill Fluids will be reclaimed at Resolute Mud Plant located 1.5 miles North, 1.5 miles West of Aneth, Utah. Fluids unsuitable for reclamation will be hauled to Envirotech Land Farm in Farmington, New Mexico.

Drill Cuttings will be solidified and hauled to Contract Environmental Services, Hovenweep site, Aneth, Utah. Chemicals used incidental to drilling operations will be housed in a metal sided building and all unused portions will be returned to vendor.

Garbage will kept in an approved, enclosed garbage trailer and transported to an approved, commercial garbage dump.

Sewage and human waste will be contained in vendor supplied receptacles and hauled to approved site by vendor. Produced Water/Oil incidental to drilling/testing operations will be transported to the appropriate Aneth Unit facilities for handling.

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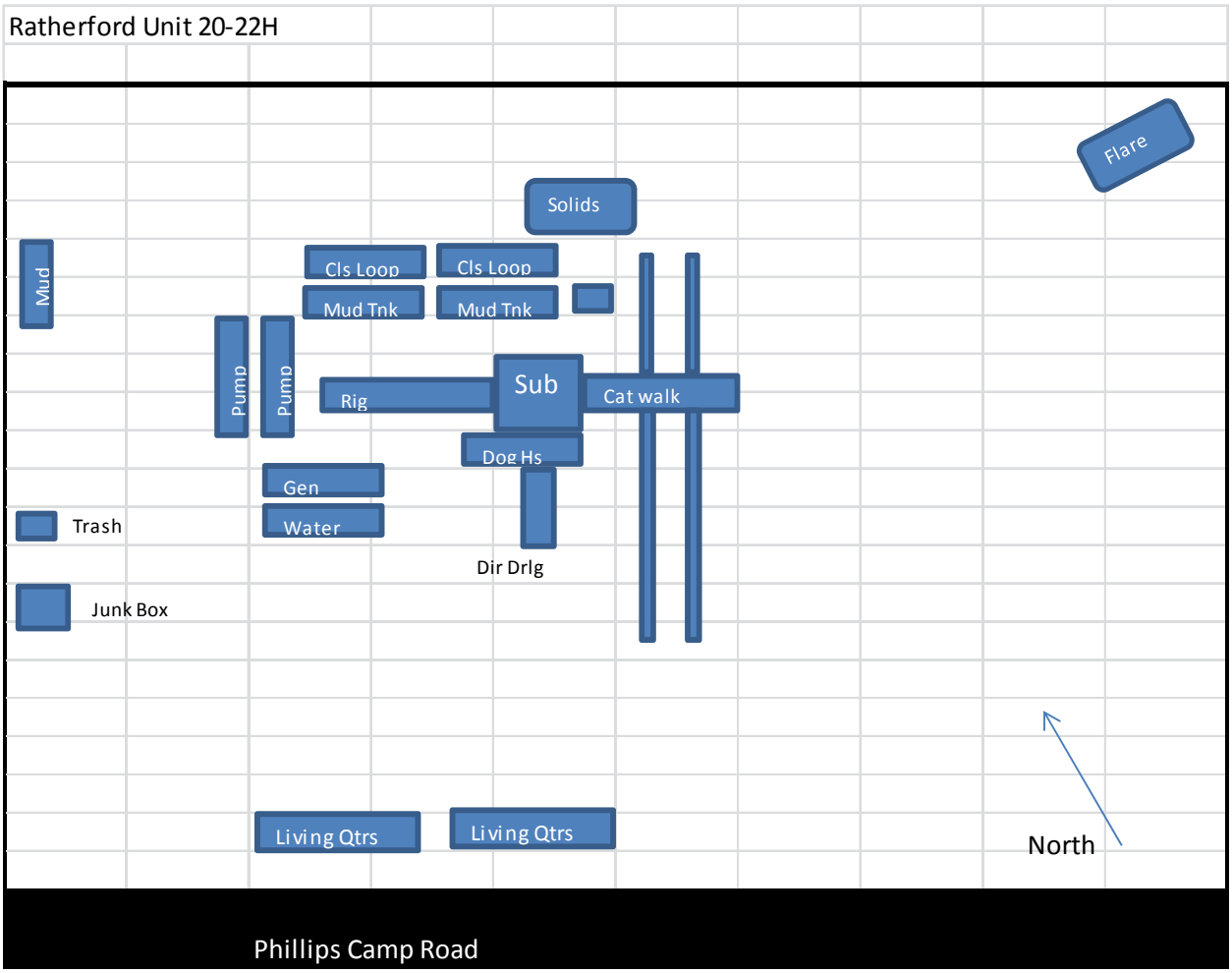
Well Site Layout



Plans for Surface Reclamation

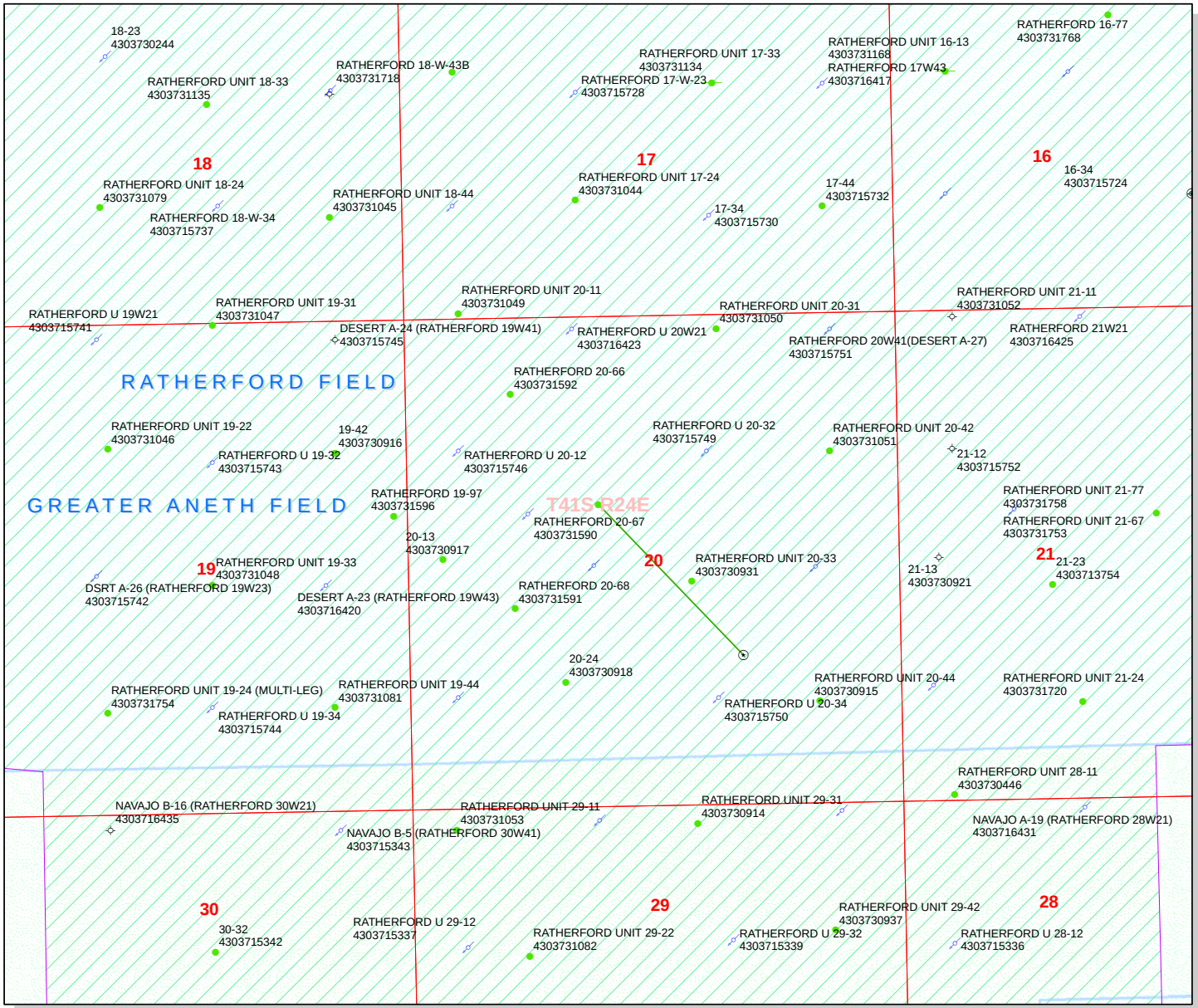
After drilling and completion and activities, the site will be returned to the producing configuration. A berm equaling a 90' radius (guy line pattern) will be created from existing location dirt. All other areas not to be used in the ongoing production activities will be reclaimed by spreading top soil from the spoil pile and reseeding as stated above.

In the event that the well is non-productive the top soil will be redistributed over the area with reseeding as per the mixture already stated. The location will be returned to as near as is possible to its original contours.

Surplus road base from the location and road will be taken up and hauled to useful location and road sites in the Aneth Unit Field. All Pits dug in conjunction with the drilling and completion activities will be closed with 30 days of cessation of activities. All pits will remain fenced with bird netting until final closure.

RECEIVED: August 31, 2011

API Well Number: 43037309300000



API Number: 4303730930

Well Name: 20-22H

Township T4.1 . Range R2.4 . Section 20

Meridian: SLBM

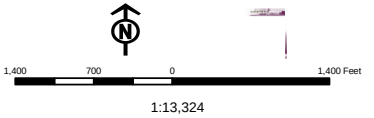
Operator: RESOLUTE NATURAL RESOURCES

Map Prepared:
Map Produced by Diana Mason

Units
STATUS
- ACTIVE
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Fields
STATUS
- Unknown
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- STORAGE
- TERMINATED

Wells Query
Status
- APD - Aproved Permit
- DRL - Spuded (Drilling Commenced)
- GIW - Gas Injection
- GS - Gas Storage
- LA - Location Abandoned
- LOC - New Location
- OPS - Operation Suspended
- PA - Plugged Abandoned
- PGW - Producing Gas Well
- POW - Producing Oil Well
- RET - Returned APD
- SGW - Shut-in Gas Well
- SOW - Shut-in Oil Well
- TA - Temp. Abandoned
- TW - Test Well
- WDW - Water Disposal
- WIW - Water Injection Well
- WSW - Water Supply Well



1:13,324

RECEIVED: September 23, 2011

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 8/31/2011
API NO. ASSIGNED: 43037309300000
WELL NAME: 20-22H
OPERATOR: RESOLUTE NATURAL RESOURCES (N2700)
PHONE NUMBER: 303 534-4600
CONTACT: Dwight Mallory

PROPOSED LOCATION: SENW 20 410S 240E
Permit Tech Review: ☑

SURFACE: 2004 FNL 2049 FWL
Engineering Review: ☐

BOTTOM: 1635 FSL 1713 FEL
Geology Review: ☑

COUNTY: SAN JUAN
LATITUDE: 37.20951
LONGITUDE: -109.30676
UTM SURF EASTINGS: 650254.00
NORTHINGS: 4119254.00
FIELD NAME: GREATER ANETH
LEASE TYPE: 2 - Indian
LEASE NUMBER: 14-20-603-353
PROPOSED PRODUCING FORMATION(S): PENNSYLVANIAN
SURFACE OWNER: 2 - Indian
COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- ☑ **PLAT**
- ☑ **Bond:** INDIAN - B001263
- ☐ **Potash**
- ☐ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ☑ **Water Permit:** lease produced water
- ☐ **RDCC Review:**
- ☐ **Fee Surface Agreement**
- ☐ **Intent to Commingle**

Commingling Approved

LOCATION AND SITING:

- ☐ **R649-2-3.**

Unit: RATHERFORD

- ☐ **R649-3-2. General**
- ☐ **R649-3-3. Exception**
- ☑ **Drilling Unit**

Board Cause No: Cause 152-6
Effective Date: 7/6/1998
Siting: Suspends General Siting

- ☑ **R649-3-11. Directional Drill**

Comments: Presite Completed
610927 UNIT EFF:931006 OP FR N0770 EFF 7/93:950803 OP FR MEPNA:020415 OP FR N7370 EFF 06-01-01: OP FR N1855:

Stipulations: 4 - Federal Approval - dmason
15 - Directional - bhill

RECEIVED: September 27, 2011

GARY R. HERBERT
Governor
GREGORY S. BELL
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES
MICHAEL R. STYLER
Executive Director
Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

Permit To Drill

****

Well Name: 20-22H
API Well Number: 43037309300000
Lease Number: 14-20-603-353
Surface Owner: INDIAN
Approval Date: 9/27/2011

Issued to:
RESOLUTE NATURAL RESOURCES, 1675 Boradway Ste 1950, Denver, CO 80202

Authority:
Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 152-6. The expected producing formation or pool is the PENNSYLVANIAN Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:
This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:
Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:
State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Notification Requirements:
The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available)
  OR
  submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at http://oilgas.ogm.utah.gov

Reporting Requirements:

API Well No: 43037309300000

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

Approved By:

For John Rogers
Associate Director, Oil & Gas

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER:
14-20-603-353

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
NAVAJO

7.UNIT or CA AGREEMENT NAME:
RATHERFORD

1. TYPE OF WELL
Oil Well

8. WELL NAME and NUMBER:
20-22H

2. NAME OF OPERATOR:
RESOLUTE NATURAL RESOURCES

9. API NUMBER:
43037309300000

3. ADDRESS OF OPERATOR:
1675 Boradway Ste 1950 , Denver, CO, 80202

PHONE NUMBER:
303 534-4600 Ext

9. FIELD and POOL or WILDCAT:
GREATER ANETH

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
2004 FNL 2049 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: SENW Section: 20 Township: 41.0S Range: 24.0E Meridian: S

COUNTY:
SAN JUAN

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 4/17/2012	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	✓ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Well was re-entered and drill-out of laterals begun on March 12, 2012. Daily well report is attached. Current status is flowing back.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
April 25, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Sherry Glass	303 573-4886	Sr Regulatory Technician
SIGNATURE		**DATE**
N/A		4/17/2012

RESOLUTE NATURAL RESOURCES

Daily Activity Report

Well Name: Ratherford U 2022H

API Number	Section	Township	Range	Field Name	County	State/Province	Wellbore Config
43037309300000	20	41S	24E	Ratherford	San Juan	Utah	Vertical

Ground Elevation (ft)	Casing Flange Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	Well Spud Date/Time	Rig Release Date/Time
4,783.00		9.00		11/28/1983 00:00	1/3/1984 00:00

Job Category	Primary Job Type	Secondary Job Type
Drilling	Drilling - re-entry	

Start Date	End Date	AFE Number
3/1/2012		10011003

Objective

Two horizontal laterals will be drilled from the existing 20-22H wellbore, which is located 2020' FNL & 2090' FWL of Sec. 20 T41S, R 24E in San Juan County, UT. The NW lateral will kick off from the wellbore at approximately 5372' MD and extend 900' to the NW, with a BH TVD of 5542' and MD of 6393'. The SE lateral will kick off from the wellbore at 5327' and extend 2250' to the SE, with a BH TVD of 5547' and MD of 7708'.

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Contractor	Rig Number	Rig Type
Four Corners Well Service	6	Service
D&J Drilling	1	Drilling - Triple
TOPPS	3028	Service

Report Start Date	Report End Date	Operations Summary
2/20/2012	2/20/2012	Hummingbird Surveying, LLC, Re-stake RU 20-22H Location, Time and Material, travel 37 miles
2/21/2012	2/21/2012	Take pumping unit apart load take to RU yard
2/22/2012	2/22/2012	JSA, safety meeting. Expose, cut out and remove transfer line.
3/1/2012	3/1/2012	Capital Re-entry Job. Location enlarged, flat and clean. Anchors tested 2/12, all marked. 3000# well head with slip type B-1 flange. No pumping unit, flowline, cathodic, rectifier. Ground wire going to casing valve. No power, fuses pulled at pole. Move rig from AU E-423 to location, Spot in rig pad and rig. Fill out JSA, hold tailgate safety meeting on rigging up. Set out all safety equipment. Fill out LO/TO forms, lock and tag one box on pole. Respot and level rig. Rig up pulling unit. Tighten and flag all guylines. Finish spotting in equipment and rod trailer. Rig up pump and pit. Check well presure's, 30psi on tubing, 90psi on casing. Open to pit, bleed off gas and oil. Load tubing. Test @500psi. Good test. Unseat pump, pump 20bbl's down tubing. Lay down polish rod, 70- 1", 60- 7/8, 66- 3/4, T-66 rods, 2 1/2x1 14x24' pump #FU-2038 and gas anchor. Shut well in.

Dur (hrs)	Comment
0.50	Move rig from AU E-423 to location, Spot in rig pad and rig.
0.50	Fill out JSA, hold tailgate safety meeting on rigging up. Set out all safety equipment. Fill out LO/TO forms, lock and tag one box on pole.
1.50	Respot and level rig. Rig up pulling unit. Tighten and flag all guylines. Finish spotting in equipment and rod trailer. Rig up pump and pit.
0.50	Check well presure's, 30psi on tubing, 90psi on casing. Open to pit, bleed off gas and oil.
0.50	Load tubing. Test @500psi. Good test. Unseat pump, pump 20bbl's down tubing.
4.50	Unseat pump, pump 20bbl's down tubing. Lay down polish rod, 70- 1", 60- 7/8, 66- 3/4, T-66 rods, 2 1/2x1 14x24' pump #FU-2038 and gas anchor.
0.50	Shut well in.
1.00	

Report Start Date	Report End Date	Operations Summary
3/2/2012	3/2/2012	Capital Re-entry Job. Fill out JSA, hold tailgate safety meeting on Weather, snow slips trips and falls, nippling up bops, pinch points. Warm up equipment. Check well presure's, 0psi on tubing, 10psi on casing. Open to pit, blow down gas. Pump 5bbl's down tubing, 20bbl's produced water down casing. Pull bolts, remove slips. Release tac, pull flange. Pick up and nipple up Bop-Hydril. Rig up floor, handrails, ladder and tongs. Pull 1jnt, add 7" packer, set 25' in hole. Test Bop-Hydril @ 400psi L, 1100psi H. Good test. Release and lay down packer. Pick up 3tag jnts and 4- 10' subs, tag 126.41' in hole. Lay down tag jnt's. Lunch. Tally, trip out of hole with 158jnt's 2 7/8, 7" tac, 6jnt's 2 7/8, 1jnt 3 1/2, sn, perf sub and mud anchor with bull plug @5501.09' with 126.41 tagged @5627.50ft. Shut well in.

Dur (hrs)	Comment
1.00	
1.00	Fill out JSA, hold tailgate safety meeting on Weather, snow slips trips and falls, nippling up bops, pinch points. Warm up equipment.
0.50	Check well presure's, 0psi on tubing, 10psi on casing. Open to pit, blow down gas. Pump 5bbl's down tubing, 20bbl's produced water down casing.
1.00	Pull bolts, remove slips. Release tac, pull flange.
1.00	Pick up and nipple up Bop-Hydril. Rig up floor, handrails, ladder and tongs.
1.00	Pull 1jnt, add 7" packer, set 25' in hole. Test Bop-Hydril @ 400psi L, 1100psi H. Good test. Release and lay down packer.
5.50	Pick up 3tag jnts and 4- 10' subs, tag 126.41' in hole. Lay down tag jnt's. Lunch. Tally, trip out of hole with 158jnt's 2 7/8, 7" tac, 6jnt's 2 7/8, 1jnt 3 1/2, sn, perf sub and mud anchor with bull plug @5501.09' with 126.41 tagged @5627.50ft.
0.50	Shut well in.

RECEIVED: Apr. 17, 2012

RESOLUTE NATURAL RESOURCES

Daily Activity Report

Well Name: Ratherford U 2022H

API Number	Section	Township	Range	Field Name	County	State/Province	Wellbore Config
43037309300000	20	41S	24E	Ratherford	San Juan	Utah	Vertical

Ground Elevation (ft)	Casing Flange Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	Well Spud Date/Time	Rig Release Date/Time
4,783.00		9.00		11/28/1983 00:00	1/3/1984 00:00

Dur (hrs)	Comment
1.00	

Report Start Date	Report End Date	Operations Summary
3/3/2012	3/3/2012	Capital Re-entry Job. Fill out JSA, hold tailgate safety meeting on Tripping tubing, tongs, hand placement, pinch points. Warm up equipment. Check well presure, 0psi on casing. Open to pit, blow off gas to pit. Pick up tongs. OD & ID bit and scraper. Make up 6 1/8 bit and bit sub, 2jnt's tubing, 7" scraper. Trip in hole with 161jnt's. Pick up 7 jnt's. and 10'sub. Tag @5627.77ft. 10' below PBTD @5618ft. Hook up pump. Pump 300bbl's produced water, no circulation. Well on a vacum. Lay down 7 tag jnt's. Trip out of hole with 161jnt's, scraper, 2jnt's, bit sub and bit. Lay down bit and scraper. Shut well in.

Dur (hrs)	Comment
1.00	
0.50	Fill out JSA, hold tailgate safety meeting on Tripping tubing, tongs, hand placement, pinch points. Warm up equipment.
0.50	Check well presure, 0psi on casing. Open to pit, blow off gas to pit.
2.00	Pick up tongs. OD & ID bit and scraper. Make up 6 1/8 bit and bit sub, 2jnt's tubing, 7" scraper. Trip in hole with 161jnt's. Pick up 7 jnt's. and 10'sub. Tag @5627.77ft. 10' below PBTD @5618ft.
1.50	Hook up pump. Pump 300bbl's produced water, no circulation. Well on a vacum.
1.50	Lay down 7 tag jnt's. Trip out of hole with 161jnt's, scraper, 2jnt's, bit sub and bit. Lay down bit and scraper.
0.50	Shut well in.
1.00	

Report Start Date	Report End Date	Operations Summary
3/5/2012	3/5/2012	Capital Re-entry Job. Fill out JSA, hold tailgate safety meeting on Wireline work, overhead loads, pinch points, watch cable. Warm up equipment. Check well presure, 0psi on casing. Open to pit, blow off gas. Nipple down drilling head from bops, prepare for wireline lubricating head. Spot in and rig up BlueJet WireLine truck. Rig up Scientific Drilling Gyro tool on wireline, go in hole to 3975' started losing wieght, pull up tool dragging. Pull out of hole, take off bow springs. Run back in hole to 5450, log to surface with Gyro tool. Lay down Gyro tool. Make up Baker wireline set RBP, run in hole, locate collars @5268, 5306 and 5343', set Baker wireline set RBP @5329ft. Pull out of hole, rig down BlueJet Wireline truck. Make up drilling head onto bops. Trip in hole with 144jnt's 2 7/8 tubing. Load hole with 50bbl's produced water. Test wireline RBP @500psi. Good test. Trip out of hole laying down 130jnt's tubing on float. Shut well in.

Dur (hrs)	Comment
1.00	
0.50	Fill out JSA, hold tailgate safety meeting on Wireline work, overhead loads, pinch points, watch cable. Warm up equipment.
0.50	Check well presure, 0psi on casing. Open to pit, blow off gas.
0.50	Nipple down drilling head from bops, prepare for wireline lubricating head.
4.50	Spot in and rig up BlueJet WireLine truck. Rig up Scientific Drilling Gyro tool on wireline, go in hole to 3975' started losing wieght, pull up tool dragging. Pull out of hole, take off bow springs. Run back in hole to 5450, log to surface with Gyro tool. Lay down Gyro tool. Make up Baker wireline set RBP, run in hole, locate collars @5268, 5306 and 5343', set Baker wireline set RBP @5329ft. Pull out of hole, rig down BlueJet Wireline truck.
1.50	Trip in hole with 144jnt's 2 7/8 tubing.
0.50	Load hole with 50bbl's produced water. Test wireline RBP @500psi. Good test.
1.50	Trip out of hole laying down 130jnt's tubing on float.
0.50	Shut well in.
1.00	

Report Start Date	Report End Date	Operations Summary
3/6/2012	3/6/2012	Capital Re-entry Job. Fill out JSA, hold tailgate safety meeting on Rigging down, laying down tubing, pinch points, hand placement. Warm up equipment. Check well presure, 0psi on tubing and casing. Open to pit. Continue trip out of hole laying down 14jnt's tubing on float. pick up 10 tag jnt's and 1jnt 3 1/2 lay down on float. Make up Baker RBP. Trip in hole with 18jnt's set RBP @616ft. Release setting tool. Load hole. Test RBP @500psi. Good test. Lunch. Trip out of hole laying down 18jnt's 2 7/8 tubing on float. Lay down Baker setting tool. Rig down tongs, handrails and floor. Nipple down Bops. Set on rack. Nipple up B-1 flange with tapped bull plug and neddle valve. Shut well in. Have tubing float moved out. Rig down pulling unit. Move off. Clean up location.

Dur (hrs)	Comment
1.00	
0.50	Fill out JSA, hold tailgate safety meeting on Rigging down, laying down tubing, pinch points, hand placement. Warm up equipment.
0.50	Check well presure, 0psi on tubing and casing. Open to pit.
1.00	Continue trip out of hole laying down 14jnt's tubing on float. pick up 10 tag jnt's and 1jnt 3 1/2 lay down on float.
0.50	Make up Baker RBP. Trip in hole with 18jnt's set RBP @616ft. Release setting tool.
0.50	Load hole. Test RBP @500psi. Good test
1.00	Lunch. Trip out of hole laying down 18jnt's 2 7/8 tubing on float. Lay down Baker setting tool.
1.00	Rig down tongs, handrails and floor. Nipple down Bops. Set on rack.

RECEIVED: Apr. 17, 2012

RESOLUTE NATURAL RESOURCES

Daily Activity Report

Well Name: Ratherford U 2022H

API Number	Section	Township	Range	Field Name	County	State/Province	Wellbore Config
43037309300000	20	41S	24E	Ratherford	San Juan	Utah	Vertical

Ground Elevation (ft)	Casing Flange Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	Well Spud Date/Time	Rig Release Date/Time
4,783.00		9.00		11/28/1983 00:00	1/3/1984 00:00

Dur (hrs)	Comment
0.50	Nipple up B-1 flange with tapped bull plug and niddle valve. Shut well in.
1.00	Rig down pulling unit. Move off. Clean up location.

Report Start Date	Report End Date	Operations Summary
3/7/2012	3/8/2012	Rd derrick on AU B414, load out all equip, road rig to location jsa on rigging up equip & communication, set sub structure & rig ramp, spot all equip & start ru of same rig up rig on ramp, set all guy lines and rig up floor ru lines to pits, set out all h2s monitors on all equip, bump test monitors ok, had 66 ppm h2s while unloading prod fluid, mustered crew and waited for h2s to clear nu 7 1/16" bop stack & choke manifold, pu 1 jt of 3 1/2" dp for bop stack test set 7 1/16" test plug in wh, pt blinds & pipes to 3000# hi & 250# lo good test, pt annular to 1500# hi & 250# lo, ok, pt ck manifold & valves 3000# hi 250# lo ok accumulator test of all bottles & precharge1200# ok, function test all controls ok cont to fill tanks and had 50 - 70 ppm hits of h2s, mustered every time alarms sounded, annular was tight releasing 7 1/16" test plug thru bag had to work several times rack out 100 jts of 3 1/2" dp & tally same mu Baker ret head on 3 1/2" tbg, tih to 616', latch & release rbp & start tooh w/same

Dur (hrs)	Comment
2.00	Rd derrick on AU B414, load out all equip, road rig to location
4.00	jsa on rigging up equip & communication, set sub structure & rig ramp, spot all equip & start ru of same
1.50	rig up rig on ramp, set all guy lines and rig up floor
5.00	ru lines to pits, set out all h2s monitors on all equip, bump test monitors ok, had 66 ppm h2s while unloading prod fluid, mustered crew and waited for h2s to clear nu 7 1/16" bop stack & choke manifold, pu 1 jt of 3 1/2" dp for bop stack test
4.00	set 7 1/16" test plug in wh, pt blinds & pipes to 3000# hi & 250# lo good test, pt annular to 1500# hi & 250# lo, ok, pt ck manifold & valves 3000# hi 250# lo ok
1.00	accumulator test of all bottles & precharge1200# ok, function test all controls ok
2.50	cont to fill tanks and had 50 - 70 ppm hits of h2s, mustered every time alarms sounded, annular was tight releasing 7 1/16" test plug thru bag had to work several times
1.00	rack out 100 jts of 3 1/2" dp & tally same
3.00	mu Baker ret head on 3 1/2" tbg, tih to 616', latch & release rbp & start tooh w/same

Report Start Date	Report End Date	Operations Summary
3/8/2012	3/9/2012	Cont tooh w/9 stds 3 1/2" tbg & ld rbp Mu Baker 7" whipstock, 6 1/8" starter & finish mills Ru hardline to flowback tank and help w/forklift on sound walls Tih w/whipstock & 10 stds 3 1/2" tbg Ru pumps & rotating head oiler pu tally & rih w/singles to jt # 171, tagged up high @ 5301' recheck tally counted all tbg & tally was correct rih w/gyro on Blue Jet wl, found the same depth on wl pooh w/wl & rd wireline tooh w/toolstring, left whipstock in hole, mills in good shape ld mills, pu retrieving hook & jars, tih w/hook, latch whipstock @ 5301', work jars & release whipstock start tooh w/toolstring

Dur (hrs)	Comment
1.00	Cont tooh w/9 stds 3 1/2" tbg & ld rbp
1.00	Mu Baker 7" whipstock, 6 1/8" starter & finish mills
1.50	Ru hardline to flowback tank and help w/forklift on sound walls
1.00	Tih w/whipstock & 10 stds 3 1/2" tbg
1.00	Ru pumps & rotating head oiler
7.00	pu tally & rih w/singles to jt # 171, tagged up high @ 5301'
0.25	recheck tally counted all tbg & tally was correct
0.75	rih w/gyro on Blue Jet wl, found the same depth on wl
1.00	pooh w/wl & rd wireline
3.50	tooh w/toolstring, left whipstock in hole, mills in good shape
0.50	ld mills, pu retrieving hook & jars,
3.50	tih w/hook, latch whipstock @ 5301', work jars & release whipstock
2.00	start tooh w/toolstring

Report Start Date	Report End Date	Operations Summary
3/9/2012	3/10/2012	finish tooh w/whipstock, ld whipstock showed marks of rbp on bottom of anchor mu retrieving head on 3 1/2" dp tih w/ret head to top of rbp @ 5301', circ hole, latch & release rbp pu 2' tool free tooh w/rbp & ld same wait on wirelineru wireline rih w/logging tool, csg inspection log 5400 - 4500', csg good thru section no signs of bad csg, pooh w/inspect log, rih w/gr & rbp on setting tool, correlate to 1983 log ck collars, set Baker rbp @ 5329', set down on plug verify set, pooh w/wl, rd sheaves in derrick wait on gyro hand, while waiting pu 6 1/8" starter & window mills, 1 jt dp & mu ubho sub, pu whipstock & scribe to ubho sub w/gyro tool in place, tih w/whipstock assembly to 5339' (10' difference in tally & wl depth recheck tally good tally) ru wireline oreint whipstock 305 deg NW, set whipstock, window will be 5333' - 5325' rd wl ru pwr swvl, break circ

Dur (hrs)	Comment
2.00	finish tooh w/whipstock, ld whipstock showed marks of rbp on bottom of anchor
0.50	mu retrieving head on 3 1/2" dp
3.00	tih w/ret head to top of rbp @ 5301',
0.50	circ hole, latch & release rbp pu 2' tool free
3.50	tooh w/rbp & ld same
0.50	wait on wireline

RESOLUTE NATURAL RESOURCES

Daily Activity Report

Well Name: Ratherford U 2022H

API Number	Section	Township	Range	Field Name	County	State/Province	Wellbore Config
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4,783.00		9.00		11/28/1983 00:00	1/3/1984 00:00

Dur (hrs)	Comment
0.50	ru wireline
4.00	rih w/logging tool, csg inspection log 5400 - 4500', csg good thru section no signs of bad csg, pooh w/inspect log, rih w/gr & rbp on setting tool, correlate to 1983 log ck collars, set Baker rbp @ 5329', set down on plug verify set, pooh w/wl, rd sheaves in derrick
2.00	wait on gyro hand, while waiting pu 6 1/8" starter & window mills, 1 jt dp & mu ubho sub,
0.50	pu whipstock & scribe to ubho sub w/gyro tool in place,
3.50	tih w/whipstock assembly to 5339' (10' difference in tally & wl depth recheck tally good tally)
0.50	ru wireline
0.50	oreint whipstock 305 deg NW, set whipstock, window will be 5333' - 5325'
0.50	rd wl
2.00	ru pwr swvl, break circ

Report Start Date	Report End Date	Operations Summary
3/10/2012	3/11/2012	mill 6 1/8" window off whipstock in 7" 26# csg from 5325' - 5329' repair popoff on rig pump cont milling from 5329' - 5339' window open from 5323' - 5333' + 6' of formation, work mills up/down thru window several times to insure smooth window ran soap sweep to clean hole & circ until no metal caught on ditch magnets hang back pwr swvl tooh w/mills on 86 stds 3 1/2" dp, gauge mills, starter mill is 1/16" under gauge of 6 1/8", finish mill is still in gauge, window in good shape for 6 1/8" bit, hook slot for whipstock @ 5325 - 5327', Note lost 1 hr for daylight savings time slip & cut 120' drill line on rig

Dur (hrs)	Comment
8.50	mill 6 1/8" window off whipstock in 7" 26# csg from 5325' - 5329'
0.50	repair popoff on rig pump
9.00	cont milling from 5329' - 5339' window open from 5323' - 5333' + 6' of formation, work mills up/down thru window several times to insure smooth window
1.00	ran soap sweep to clean hole & circ until no metal caught on ditch magnets
0.50	hang back pwr swvl
3.50	tooh w/mills on 86 stds 3 1/2" dp, gauge mills, starter mill is 1/16" under gauge of 6 1/8", finish mill is still in gauge, window in good shape for 6 1/8" bit, hook slot for whipstock @ 5325 - 5327', Note lost 1 hr for daylight savings time
1.00	slip & cut 120' drill line on rig

Report Start Date	Report End Date	Operations Summary
3/11/2012	3/12/2012	M/U BHA, 6 1/8 Security QH20R bit jetted w/3 - 20s, 3 deg Motor, UBHO, 2 jts Flex Monel, UBHO, total bha length 91.76' Rig Service, Replace all three swabs & liners in pump 1 & pump 2 from 6 1/2" to 5". TIH 40 stds 3 1/2 DP R/U power swivel, Test motor & MWD tool, R/D power swivel.TIH 44 stds 3 1/2 DP to 5298' ru pwr swvl & wl for gyro, tih thru window to 5338', no problem going thru csg slide w/motor from 5338' - 5351' circ w/200 gpm prod fluid, wob 9 - 18 pts, 112 rpm @ bit, avg rop 22 fphreseat gyro on wl & take readings, inc 9 deg azimuth 302 deg slide w/motor from 5351' - 5361, circ 200 gpm prod fluid, wob 12 pts, 112 rpm @ bit, 10 fph reseat gyro on wl & take readings, inc 10 deg azimuth 302 deg cont sliding & taking gyro readings from 5361' - 5380', receiving good mwd pulses, rd gyro & wl slide from 5380' - 5425' w/200 gpm prod fluid, avg wob 20 pts, 112 rpm avg rop 25 fph mwd readings show build angle of 33 deg, decide to trip 3 deg motor & replace w/1.83 deg motor to finish build & land circ bottoms up until clean ld 3 singles to get back into csg w/ bha

Dur (hrs)	Comment
2.50	M/U BHA, 6 1/8 Security QH20R bit jetted w/3 - 20s, 3 deg Motor, UBHO, 2 jts Flex Monel, UBHO, total bha length 91.76'
5.50	Rig Service, Replace all three swabs & liners in pump 1 & pump 2 from 6 1/2" to 5".
2.00	TIH 40 stds 3 1/2 DP
1.00	R/U power swivel, Test motor & MWD tool, R/D power swivel.
1.50	TIH 44 stds 3 1/2 DP to 5298'
1.75	ru pwr swvl & wl for gyro, tih thru window to 5338', no problem going thru csg
1.50	slide w/motor from 5338' - 5351' circ w/200 gpm prod fluid, wob 9 - 18 pts, 112 rpm @ bit, avg rop 22 fph
0.25	reseat gyro on wl & take readings, inc 9 deg azimuth 302 deg
1.00	slide w/motor from 5351' - 5361, circ 200 gpm prod fluid, wob 12 pts, 112 rpm @ bit, 10 fph
0.25	reseat gyro on wl & take readings, inc 10 deg azimuth 302 deg
3.00	cont sliding & taking gyro readings from 5361' - 5380', receiving good mwd pulses, rd gyro & wl
2.25	slide from 5380' - 5425' w/200 gpm prod fluid, avg wob 20 pts, 112 rpm avg rop 25 fph
0.25	mwd readings show build angle of 33 deg, decide to trip 3 deg motor & replace w/1.83 deg motor to finish build & land
0.50	circ bottoms up until clean
0.75	ld 3 singles to get back into csg w/ bha

Report Start Date	Report End Date	Operations Summary
3/12/2012	3/13/2012	circ bottoms up prep to trip motor ld 4 jts dp w/pwr swvl to trip out tooh w/dp & bha, c/o motor from 3 deg to 1.83 deg ck bit ok tih w/bha & 1.83 deg motor to 5425', drill & slide from 5425' - 5663', 110 rpm on bit, avg 20 pts, survey @ 5594', inc 57 deg, az 311, circ waiting on decision to trip motor from Resolute

Dur (hrs)	Comment
0.50	circ bottoms up prep to trip motor

RESOLUTE NATURAL RESOURCES

Daily Activity Report

Well Name: Ratherford U 2022H

API Number	Section	Township	Range	Field Name	County	State/Province	Wellbore Config
43037309300000	20	41S	24E	Ratherford	San Juan	Utah	Vertical

Ground Elevation (ft)	Casing Flange Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	Well Spud Date/Time	Rig Release Date/Time
4,783.00		9.00		11/28/1983 00:00	1/3/1984 00:00

Dur (hrs)	Comment
1.50	ld 4 jts dp w/pwr swvl to trip out
3.00	tooh w/dp & bha, c/o motor from 3 deg to 1.83 deg ck bit ok
3.00	tih w/bha & 1.83 deg motor to 5425',
15.00	drill & slide from 5425' - 5663', 110 rpm on bit, avg 20 pts, survey @ 5594', inc 57 deg, az 311
1.00	circ waiting on decision to trip motor from Resolute

Report Start Date	Report End Date	Operations Summary
3/13/2012	3/14/2012	circ, decision made from geology to continue drilling w/current motor & build slide ahead from 5667' - 6048' md, tvd 5587 w/10 - 12 pts on bit, 212 gpm, returns light oil @ shaker building up on pits, inc 92.9 deg az 313 deg @ 5998' md surveys 5873 93.1 deg, 5904 92.8 deg, 5935 92.9, 5967 92.9 deg, 5998 92.9 deg

Dur (hrs)	Comment
1.00	circ, decision made from geology to continue drilling w/current motor & build
23.00	slide ahead from 5667' - 6048' md, tvd 5587 w/10 - 12 pts on bit, 212 gpm, returns light oil @ shaker building up on pits, inc 92.9 deg az 313 deg @ 5998' md surveys 5873 93.1 deg, 5904 92.8 deg, 5935 92.9, 5967 92.9 deg, 5998 92.9 deg

Report Start Date	Report End Date	Operations Summary
3/14/2012	3/15/2012	Drill Ahead F/ 6048' T/ 6071' 115 strokes, 222 GPM, 12K on bit, 1375 psi. Rig Service Slide 6' F/ 6071' T/ 6077' Drill Ahead F/ 6077' T/ 6150' 115 strokes, 222 GPM, 12K on bit, 1375 psi. Slide 6' F/ 6150 T/ 6156 115 strokes, 376 GPM, 36K on bit, 1425 psi. Drill F/ 6156 T/ 6358', last survey @ 6358' md, 5566 tvd, inc 95.2 deg, az 312.60 deg, circ bottoms up ld 37 jts dp to 5250', kept hole full on tooh ck for flow, well dead before tooh tooh w/84 stds dp & bha, bit ok, bearings slightly loose, worn buttoms, ld directional tools

Dur (hrs)	Comment
2.50	Drill Ahead F/ 6048' T/ 6071' 115 strokes, 222 GPM, 12K on bit, 1375 psi.
1.00	Rig Service
0.50	Slide 6' F/ 6071' T/ 6077'
6.50	Drill Ahead F/ 6077' T/ 6150' 115 strokes, 222 GPM, 12K on bit, 1375 psi.
0.50	Slide 6' F/ 6150 T/ 6156 115 strokes, 376 GPM, 36K on bit, 1425 psi.
8.00	Drill F/ 6156 T/ 6358', last survey @ 6358' md, 5566 tvd, inc 95.2 deg, az 312.60 deg,
1.00	circ bottoms up
1.25	ld 37 jts dp to 5250', kept hole full on tooh
0.25	ck for flow, well dead before tooh
2.50	tooh w/84 stds dp & bha, bit ok, bearings slightly loose, worn buttoms, ld directional tools

Report Start Date	Report End Date	Operations Summary
3/15/2012	3/16/2012	well had light light flow 2 gpm thru hcr diverter to pit, tih w/23 stds dp fo circ 10# brine top kill, skim oil off pits & transfer fluid from rig pit to closed loop to make room for 80bbls of 10# brine, load suction pit w/10# brine & circ from 1449', flowing to pit prep to circ pump 60 bbls 10#, returns heavy oil to pit, shut down pump, ck for flow, well flowing to pit, cont to skim oil off pits while tih w/40 more stds dp to 3970' circ 10# brine @ 3970', returns 10# then medium to heavy oil returns, haul 240 bbls more 10# brine, hauled off 80 bbls oil to battery 2 cont to skim oil off pits while tih w/19 stds to 5148' skim oil from rig & closed loop recovered another 44 bbls to ld frac tank, haul off 500 bbls prod fluid from rig pits, refill w/10# brine sicp 950#, sipp initial pump 1000#, circ 10# brine w/constant dp psi @ 1100#, pump 177 bbls, full circ 162 bbls, open chk ck for flow, 10# brine returns, ck siddp w pump at idle, 500#, calculates to 11.8 kwm, round up 10# brine back to 400 bbl storage tank, start hauling brine back to mud plant, pu 6 singles & rih w/same to 5330', swvl up sicp built to 650#, finish hauling 10# off loc, re-fill 400 bbl storage w/fresh h2o, haul 300 bbls 9.3 ppg mud from storage @ mud plant (AU B414 mud) received 1000 sks bar & 2 pallets of gel to build mud wt to 12 ppg, mix mud prep to pump kwm

Dur (hrs)	Comment
2.00	well had light light flow 2 gpm thru hcr diverter to pit, tih w/23 stds dp fo circ 10# brine top kill,
1.50	skim oil off pits & transfer fluid from rig pit to closed loop to make room for 80bbls of 10# brine, load suction pit w/10# brine & circ from 1449', flowing to pit prep to circ
0.50	pump 60 bbls 10#, returns heavy oil to pit, shut down pump, ck for flow, well flowing to pit,
0.75	cont to skim oil off pits while tih w/40 more stds dp to 3970'
0.50	circ 10# brine @ 3970', returns 10# then medium to heavy oil returns, haul 240 bbls more 10# brine, hauled off 80 bbls oil to battery 2
0.75	cont to skim oil off pits while tih w/19 stds to 5148'
6.00	skim oil from rig & closed loop recovered another 44 bbls to ld frac tank, haul off 500 bbls prod fluid from rig pits, refill w/10# brine
1.25	sicp 950#, sipp initial pump 1000#, circ 10# brine w/constant dp psi @ 1100#, pump 177 bbls, full circ 162 bbls, open chk ck for flow, 10# brine returns, ck siddp w pump at idle, 500#, calculates to 11.8 kwm, round up 10# brine back to 400 bbl storage tank, start hauling brine back to mud plant,
1.00	pu 6 singles & rih w/same to 5330', swvl up
9.75	sicp built to 650#, finish hauling 10# off loc, re-fill 400 bbl storage w/fresh h2o, haul 300 bbls 9.3 ppg mud from storage @ mud plant (AU B414 mud) received 1000 sks bar & 2 pallets of gel to build mud wt to 12 ppg, mix mud prep to pump kwm

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RESOLUTE NATURAL RESOURCES

Daily Activity Report

Well Name: Ratherford U 2022H

API Number	Section	Township	Range	Field Name	County	State/Province	Wellbore Config
43037309300000	20	41S	24E	Ratherford	San Juan	Utah	Vertical

Ground Elevation (ft)	Casing Flange Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	Well Spud Date/Time	Rig Release Date/Time
4,783.00		9.00		11/28/1983 00:00	1/3/1984 00:00

Report Start Date	Report End Date	Operations Summary
3/16/2012	3/17/2012	weigh up, circ & condition mud to 12 ppg jsa on communication while pumping kill, circ 12 ppg kwm thru remote choke to LD tank, circ 205 bbls, shut down pump, open choke ck for flow, dead, close choke open straight line thru chk manifold to lined pit, circ 5 bbls, 12 ppg mud to pit, shut down pump circ hole w/12 ppg mud insure no more gas or oil returns LD 6 singles, tooh w/83 stds 3 1/2" dp jsa wl crew & rig crew on sheaves & lines in derrick, ru Black Warrior wl, nu lubricator adaptor to rotating head, ru wl lub rih w/gamma, run strip to correlate, pooh w/gamma, rih w/ccl & 7" Baker rbp, ck collars & set rbp @ 5258' WL depth, pooh w/wl tools, rd wl lub & sheaves psi test RBP 500#, pu & mu Baker 7" 3 deg whipstock on jt 3 1/2" dp, scribe & align whip to ubho sub for toolface, tih w/whipstock assembly on std 3 1/2" dp,tih w/whipstock assembly, orient @ 137 deg, set down on rbp to set anchor on whipstock, felt soft set & then dropped down 6', not positive whip is correctly set tooh w/ mills, tih w/retrieving hook for whipstock to insure set

Dur (hrs)	Comment
4.00	Re-check orientation w/gyro and insure whipstock @ correct azimuth before milling window
1.00	jsa on communication while pumping kill, circ 12 ppg kwm thru remote choke to LD tank, circ 205 bbls, shut down pump, open choke ck for flow, dead, close choke open straight line thru chk manifold to lined pit, circ 5 bbls, 12 ppg mud to pit, shut down pump
0.75	circ hole w/12 ppg mud insure no more gas or oil returns
3.00	LD 6 singles, tooh w/83 stds 3 1/2" dp
0.75	jsa wl crew & rig crew on sheaves & lines in derrick, ru Black Warrior wl, nu lubricator adaptor to rotating head, ru wl lub
2.00	rih w/gamma, run strip to correlate, pooh w/gamma, rih w/ccl & 7" Baker rbp, ck collars & set rbp @ 5258' WL depth, pooh w/wl tools, rd wl lub & sheaves
0.25	psi test RBP 500#,
1.00	pu & mu Baker 7" 3 deg whipstock on jt 3 1/2" dp, scribe & align whip to ubho sub for toolface, tih w/whipstock assembly on std 3 1/2" dp,
5.00	tih w/whipstock assembly, orient @ 137 deg, set down on rbp to set anchor on whipstock, felt soft set & then dropped down 6', not positive whip is correctly set
3.00	tooh w/ mills,
3.00	tih w/retrieving hook for whipstock to insure set

Report Start Date	Report End Date	Operations Summary
3/17/2012	3/18/2012	riu wl & rih w/gyro to check whipstock azimuth take gyro readings while latched into slot on whipstock w/retrieving hook, verified whip set pulled 10k over string weight, cked orienttion 127 deg E/NE pooh w/gyro tools, rd wl tooh w/retrieving hook tih w/starter & finsih mills on 83 stds dp mill window from 5352' - 5362', mill 5' of formation, work mills thru window until smooth ran 1 gal foamer sweep from td outside window, returned light metal & trace of shale tooh w/83 stds dp & mills mu new 6 1/8" Security bit, dh motor, ubho sub, 2 monel collars, mwd tools

Dur (hrs)	Comment
2.00	riu wl & rih w/gyro to check whipstock azimuth
0.50	take gyro readings while latched into slot on whipstock w/retrieving hook, verified whip set pulled 10k over string weight, cked orienttion 127 deg E/NE
1.00	pooh w/gyro tools, rd wl
3.00	tooh w/retrieving hook
3.00	tih w/starter & finsih mills on 83 stds dp
10.00	mill window from 5252' - 5260', mill 5' of formation, work mills thru window until smooth
0.50	ran 1 gal foamer sweep from td outside window, returned light metal & trace of shale
3.00	tooh w/83 stds dp & mills
1.00	mu new 6 1/8" Security bit, dh motor, ubho sub, 2 monel collars, mwd tools

Report Start Date	Report End Date	Operations Summary
3/18/2012	3/19/2012	tih w/6 1/8" bit & directional bha, severe wind last 30 minutes of trip, slowed trip time down ru Blue jet wl & rih w/gyro tool seat in tool-face & ck orientation ru pwr swvl & pu singles while checking tool face angle, drill/slide from window bottom @ 5260' - 5267' gyro tools not responding, various tools attempted, 3 failures, wrong parts brought to repair, (Scientific only gyro game in town) rehead wl rope socket, continue attempting to gyro steer, intermittent signal from tool when in tool face, pooh & rd wl

Dur (hrs)	Comment
3.50	tih w/6 1/8" bit & directional bha, severe wind last 30 minutes of trip, slowed trip time down
1.00	ru Blue jet wl & rih w/gyro tool seat in tool-face & ck orientation
4.00	ru pwr swvl & pu singles while checking tool face angle, drill/slide from window bottom @ 5260' - 5267'
9.50	gyro tools not responding, various tools attempted, 3 failures, wrong parts brought to repair, (Scientific only gyro game in town)
6.00	rehead wl rope socket, continue attempting to gyro steer, intermittent signal from tool when in tool face, pooh & rd wl

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RESOLUTE NATURAL RESOURCES

Daily Activity Report

Well Name: Ratherford U 2022H

API Number	Section	Township	Range	Field Name	County	State/Province	Wellbore Config
43037309300000	20	41S	24E	Ratherford	San Juan	Utah	Vertical

Ground Elevation (ft)	Casing Flange Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	Well Spud Date/Time	Rig Release Date/Time
4,783.00		9.00		11/28/1983 00:00	1/3/1984 00:00

Report Start Date	Report End Date	Operations Summary
3/19/2012	3/20/2012	Tooh w/directional tools on 3 1/2" dp, to change motor angle from 2.38 deg to 1.83 deg dial down motor to 1.83 deg to get out of window w/mwd tool, tih w/83 stds dp, ru pwr swvl & pu single to 5267', drill 5267' - 5296' take survey, 2.5 deg @ bottom of whipstock, estimated 5 deg in open hole section, hang back pwr swvl tooh w/directional tools on 3 1/2" dp, to dial up motor from 1.83 deg to 2.6 deg change motor from 1.83 to 2.6 deg , scribe motor to ubho sub & insert mwd assembly tih w/Security 6 1/8" QH20R bit, motor, monel collars, ubho sub & 83 stds 3 1/2" dp slide from 5296' - 5360' 12-15 fph, last srvy @ 5317' 12.1 deg

Dur (hrs)	Comment
3.00	Tooh w/directional tools on 3 1/2" dp, to change motor angle from 2.38 deg to 1.83 deg
3.50	dial down motor to 1.83 deg to get out of window w/mwd tool, tih w/83 stds dp,
0.50	ru pwr swvl & pu single to 5267',
1.50	drill 5267' - 5296'
0.50	take survey, 2.5 deg @ bottom of whipstock, estimated 5 deg in open hole section, hang back pwr swvl
2.50	tooh w/directional tools on 3 1/2" dp, to dial up motor from 1.83 deg to 2.6 deg
1.25	change motor from 1.83 to 2.6 deg , scribe motor to ubho sub & insert mwd assembly
3.00	tih w/Security 6 1/8" QH20R bit, motor, monel collars, ubho sub & 83 stds 3 1/2" dp
8.25	slide from 5296' - 5360' 12-15 fph, last srvy @ 5317' 12.1 deg

Report Start Date	Report End Date	Operations Summary
3/20/2012	3/21/2012	Cont sliding from 5360' - 5420', building angle to 28 deg, circ & srvy @ 5378' 28.3 deg az 157 deg, projection to bit 43 deg LD 7 singles to get bit back in 7" csg change out packing in power swivel w/High tech crew while starting tooh tooh w/bha, turn down motor bend from 2.6 deg to 1.83 deg, scribe same tih w/bha & 83 stds dp to window @ 5352' swvl up & pu singles to 5420' circ & srvy @ 5378' to orient toolface to high side slide from 5420' - 5563', srvy @ 5472' inc 41.5 deg, tvd 5449', bit projection inc 47 deg, az 137 deg, tvd 5479', rop 12-15 fph, 100% limestone returns upper Ismay

Dur (hrs)	Comment
4.50	Cont sliding from 5360' - 5420', building angle to 28 deg,
0.50	circ & srvy @ 5378' 28.3 deg az 157 deg, projection to bit 43 deg
0.50	LD 7 singles to get bit back in 7" csg
1.50	change out packing in power swivel w/High tech crew while starting tooh
2.50	tooh w/bha,
0.50	turn down motor bend from 2.6 deg to 1.83 deg, scribe same
2.50	tih w/bha & 83 stds dp to window @ 5352'
0.50	swvl up & pu singles to 5420'
0.25	circ & srvy @ 5378' to orient toolface to high side
10.75	slide from 5420' - 5563', srvy @ 5472' inc 41.5 deg, tvd 5449', bit projection inc 47 deg, az 137 deg, tvd 5479', rop 12-15 fph, 100% limestone returns upper Ismay

Report Start Date	Report End Date	Operations Summary
3/21/2012	3/22/2012	Cont to slide from 5563' - 5608' rig service, change trans oil on rigrotate 5608' - 5514', slide 5514' - 5644' srvy @ 5639', inc 58.8 deg, az 137 deg, projection to bit inc 65 deg , light oil returns slide & rotate from 5644'- 5827', srvy @ 5785' inc 82.4, az 136, projection to bit 89 deg, increased oil returns rotate 5827' - 5960', land on target 4' below projection, last srvy 5847', inc 92.5 deg, az 137.2 deg, decrease inc to 91 deg per request from Resolute Geologist drill ahead @ 70-80 fph, steady oil returns, skimming oil in closed loop pit, have recovered 12 bbls this am from pit tank

Dur (hrs)	Comment
4.00	Cont to slide from 5563' - 5608'
1.00	rig service, change trans oil on rig
0.50	rotate 5608' - 5514',
3.00	slide 5514' - 5644' srvy @ 5639', inc 58.8 deg, az 137 deg, projection to bit inc 65 deg , light oil returns
13.00	slide & rotate from 5644'- 5827', srvy @ 5785' inc 82.4, az 136, projection to bit 89 deg, increased oil returns
2.50	rotate 5827' - 5960', land on target 4' below projection, last srvy 5847', inc 92.5 deg, az 137.2 deg, decrease inc to 91 deg per request from Resolute Geologist drill ahead @ 70-80 fph, steady oil returns, skimming oil in closed loop pit, have recovered 12 bbls this am from pit tank

Report Start Date	Report End Date	Operations Summary
3/22/2012	3/23/2012	drill 5827 to 5980' md circ bottoms up ld 23 jts 3 1/2" dp to window for rig repairs, well flowing light oil returns, decide to displace hole w/mix of 10# brine & prod fluid rig repair, change out transmission, haul off 240 bbls prod fluid from suction pit & replace w/240 bbls 10# brine circ from window, w/9.1 ppg fluid tih w/10 jts into open hole, circ tih w/13 jts 3 1/2" dp, pu 1 more single w/pwr swvl, circ, lost 25 bbls to hole, swvl up & start to drill from 5980' md, pwr swvl seal on hydraulic motor failed, severe hydraulic leak, contact High Tech for repairs ld 23 singles back to window, replace hyd drive on pwr swvl head, circ hole w/prod fluid while making repairs, hole stable no losses, skimmed oil off closed loop pit while circ, 18 bbls oil tih w/10 jts into open hole, curve in good shape no drag or ledges, circ bottoms up, no losses cont tih w/13 more jts dp to 5980' swvl up & resume drilling

Dur (hrs)	Comment
2.00	drill 5827 to 5980' md
0.50	circ bottoms up

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RESOLUTE NATURAL RESOURCES

Daily Activity Report

Well Name: Ratherford U 2022H

API Number	Section	Township	Range	Field Name	County	State/Province	Wellbore Config
43037309300000	20	41S	24E	Ratherford	San Juan	Utah	Vertical

Ground Elevation (ft)	Casing Flange Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	Well Spud Date/Time	Rig Release Date/Time
4,783.00		9.00		11/28/1983 00:00	1/3/1984 00:00

Dur (hrs)	Comment
1.00	ld 23 jts 3 1/2" dp to window for rig repairs, well flowing light oil returns, decide to displace hole w/mix of 10# brine & prod fluid
8.00	rig repair, change out transmission, haul off 240 bbls prod fluid from suction pit & replace w/240 bbls 10# brine
0.50	circ from window, w/9.1 ppg fluid
1.00	tih w/10 jts into open hole, circ
1.00	tih w/13 jts 3 1/2" dp, pu 1 more single w/pwr swvl, circ, lost 25 bbls to hole,
0.50	swvl up & start to drill from 5980' md, pwr swvl seal on hydraulic motor failed, severe hydraulic leak, contact High Tech for repairs
1.00	ld 23 singles back to window,
5.00	replace hyd drive on pwr swvl head, circ hole w/prod fluid while making repairs, hole stable no losses, skimmed oil off closed loop pit while circ, 18 bbls oil
1.00	tih w/10 jts into open hole, curve in good shape no drag or ledges, circ bottoms up, no losses
1.50	cont tih w/13 more jts dp to 5980' swvl up & resume drilling

Report Start Date	Report End Date	Operations Summary
3/23/2012	3/24/2012	pu off bottom 30' to 5950', pump off 200 bbls 9.1 ppg fluid to ld tank, refill w/prod fluid to balance formation, drlg f/5980 to 6030 dlrg f/6030 to 6426 rop slowed down skimed app 5 bbls oil off pits well making good green oil circ for bit trip tooh for bit, bit hrs 66, total footage 1166 ave 17.5 ft per hr,ld motor, called water truck to skim pits while tooh skimed app 6 bbls oil pu motor orentaite mu bit tih, bit #3 reed r22ap ser # d151724 / 3-18 jets, hole making gas break circ test down hole tools @2906' cont tih break circ @ window well making green oil tih w/last 15 stds pu swivel wash 2 jts to bottom no fill hole making good oil circ app 10 bbls of oil.

Dur (hrs)	Comment
1.00	pu off bottom 30' to 5950', pump off 200 bbls 9.1 ppg fluid to ld tank, refill w/prod fluid to balance formation,
1.00	drlg f/5980 to 6030
13.00	dlrg f/6030 to 6426 rop slowed down skimed app 5 bbls oil off pits well making good green oil
1.00	circ for bit trip
3.00	tooh for bit, bit hrs 66, total footage 1166 ave 17.5 ft per hr,ld motor, called water truck to skim pits while tooh skimed app 6 bbls oil
2.00	pu motor orentaite mu bit tih, bit #3 reed r22ap ser # d151724 / 3-18 jets, hole making gas
0.25	break circ test down hole tools @2906'
0.75	cont tih
0.25	break circ @ window well making green oil
0.75	tih w/last 15 stds
1.00	pu swivel wash 2 jts to bottom no fill hole making good oil circ app 10 bbls of oil.

Report Start Date	Report End Date	Operations Summary
3/24/2012	3/25/2012	drlg f/6426 to 6456 hole making a lot of oil and gas drlg f/6426 to 6669 hole still making a lot of oil app 20 bbls in the last 10 hrs, catch tank for cutting has app 15 bbls of oil in it will suck out with vac truck.drlg f/ 6669 to 7034 hole still making a lot of oil app 22 bbl in the last 14 hrs survey @ 6992 inc 90.2 az 137.6 tvd 6577. catch tank app 10 bbls

Dur (hrs)	Comment
2.00	drlg f/6426 to 6456 hole making a lot of oil and gas
8.00	drlg f/6426 to 6669 hole still making a lot of oil app 20 bbls in the last 10 hrs, catch tank for cutting has app 15 bbls of oil in it will suck out with vac truck
14.00	drlg f/ 6669 to 7034 hole still making a lot of oil app 22 bbl in the last 14 hrs survey @ 6992 inc 90.2 az 137.6 tvd 6577. catch tank app 10 bbls

Report Start Date	Report End Date	Operations Summary
3/25/2012	3/26/2012	drlg f/7034 to 7250 well making good oil skimed 20 bbls of oil off pits,with vac truck, pumped 25 bbls oil to lay down tank serv rig change pumps drlg f/7250 to 7567, slide f7567 to 7574, drlg f/7574 to 7620 wob 4000, rop 32 ft hr rot 80

Dur (hrs)	Comment
10.00	drlg f/7034 to 7250 well making good oil skimed 20 bbls of oil off pits,with vac truck, pumped 25 bbls oil to lay down tank
12.00	serv rig change pumps drlg f/7250 to 7567
0.25	slide f7567 to 7574
1.75	drlg f/7574 to 7620 wob 4000, rop 32 ft hr rot 80

Report Start Date	Report End Date	Operations Summary
3/26/2012	3/27/2012	drlg f/7620 to 7683 td, circ clean hole for toh to ld dp. ld 78 jts dp to window. pumped 600 bbl production water to ld tank cleaned rig pit. get 400 bbls mud f/bluk plant at 9.4wt mix bar to get wt to a 12.2 mixed 15.5 pallets, displaced 247 bbls production water in well w 12.2 wt mud. circ hole w 12.2 mud,got 2800 units gas back @ bottoms up check for flow flowing 1/2 stream @ shaker circ hole w 12.2 mud check for flow no flow tooh for directional tools

Dur (hrs)	Comment
3.00	drlg f/7620 to 7683 td,
1.00	circ clean hole for toh to ld dp.
3.00	ld 78 jts dp to window.
3.00	pumped 600 bbl production water to ld tank cleaned rig pit.
10.00	get 400 bbls mud f/bluk plant at 9.4wt mix bar to get wt to a 12.2 mixed 15.5 pallets

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RESOLUTE NATURAL RESOURCES

Daily Activity Report

Well Name: Ratherford U 2022H

API Number	Section	Township	Range	Field Name	County	State/Province	Wellbore Config
43037309300000	20	41S	24E	Ratherford	San Juan	Utah	Vertical

Ground Elevation (ft)	Casing Flange Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	Well Spud Date/Time	Rig Release Date/Time
4,783.00		9.00		11/28/1983 00:00	1/3/1984 00:00

Dur (hrs)	Comment
1.50	displaced 247 bbls production water in well w 12.2 wt mud.
1.00	circ hole w 12.2 mud,got 2800 units gas back @ bottoms up
0.25	check for flow flowing 1/2 stream @ shaker
0.25	circ hole w 12.2 mud
0.25	check for flow no flow
0.75	tooh for directional tools

Report Start Date	Report End Date	Operations Summary
3/27/2012	3/28/2012	tooh w/dirc tools load out dirc tool serv rig,unload whip stock ret tool make up ret tool, tih pu 5 jts swivel up well started flowing circ bottoms up got back 50bbls of water cut mud back pumped to pit.circ & cond mud, starting mud wt 11.1 mix bar to a 12.6 kill mud wt.had 80 bbls mud hauled from bulk plant.mixed17 pallets bar, 12 cans defoamer

Dur (hrs)	Comment
3.50	tooh w/dirc tools
0.50	load out dirc tool serv rig,unload whip stock ret tool
3.00	make up ret tool, tih
0.50	pu 5 jts swivel up well started flowing
1.00	circ bottoms up got back 50bbls of water cut mud back pumped to pit.
15.50	circ & cond mud, starting mud wt 11.1 mix bar to a 12.6 kill mud wt.had 80 bbls mud hauled from bulk plant.mixed17 pallets bar, 12 cans defoamer

Report Start Date	Report End Date	Operations Summary
3/28/2012	3/29/2012	circ hang swivel tooh w/whipstock, break jars, ld pu RBP tool mu TIH w/tool, circ on top RBP, retrive RBP circ w rbp bottoms up ck flow flowing 1/2 stream circ & cond mud back to a 12.8 ppg wt.hang swivel cooh @ 30' ft a min to keep from swabing well ld rbp mu whipstock tool tih w/tool pu swivel circ ck flow flowing 1/2 stream

Dur (hrs)	Comment
0.50	circ
4.50	hang swivel cooh w/whipstock
1.00	break jars ld pu rbp tool mu
2.00	tih w/tool
1.50	circ on top rbp
1.50	retrive rbp circ w rbp bottoms up
0.50	ck flow flowing 1/2 stream
2.50	circ & cond mud back to a 12.8 ppg wt.
5.00	hang swivel cooh @ 30' ft a min to keep from swabing well
0.50	ld rbp mu whipstock tool
2.50	tih w/tool
1.50	pu swivel circ
0.50	ck flow flowing 1/2 stream

Report Start Date	Report End Date	Operations Summary
3/29/2012	3/30/2012	circ & cond mud to 12.8 ppg wt well still making water get a sidpp (470 psi) hang swivel m/n 1 lt dp latch on to whipstock, Tooh 85 stds w/whipstock,l/d whipstock,jars,ser rig,p/u rbp tools m/u rbp retrieveing tool, tih, p/u pup jt, p/u swivel break circ retrieve rbp, circ 11/2 times bottoms up.(ck for flow no flow) l/d 1 jt + pup jt hang swivel cooh 30 ft a min.m/u mills tih taged @ 4663. swivel up milled throw tag area not much there circ hang swivel cont tih to 5325. swivel up reamed f/5325 to 5634 reamed around window untill we saw no drag good and clean windows circ ck flow well flowing l/d 12 jts w/ swivel

Dur (hrs)	Comment
2.00	circ & cond mud to 12.8 ppg wt well still making water.
0.50	get a sidpp (470 psi)
1.00	hang swivel m/n 1 lt dp latch on to whipstock
3.00	cooh 85 stds w/whipstock,l/d whipstock,jars,ser rig,p/u rbp tools
3.00	m/u rbp retrieveing tool, tih, p/u pup jt, p/u swivel break circ
2.00	retrieve rbp, circ 11/2 times bottoms up.(ck for flow no flow)
4.50	l/d 1 jt + pup jt hang swivel cooh 30 ft a min.
2.50	m/u mills tih taged @ 4663.
0.50	swivel up milled throw tag area not much there
0.50	circ
1.00	hang swivel cont tih to 5325.
1.00	swivel up reamed f/5325 to 5634 reamed around window untill we saw no drag good and clean windows
1.00	circ
0.50	ck flow well flowing
1.00	l/d 12 jts w/ swivel

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RESOLUTE NATURAL RESOURCES

Daily Activity Report

Well Name: Ratherford U 2022H

API Number	Section	Township	Range	Field Name	County	State/Province	Wellbore Config
43037309300000	20	41S	24E	Ratherford	San Juan	Utah	Vertical

Ground Elevation (ft)	Casing Flange Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	Well Spud Date/Time	Rig Release Date/Time
4,783.00		9.00		11/28/1983 00:00	1/3/1984 00:00

Report Start Date	Report End Date	Operations Summary
3/30/2012	3/31/2012	circ get mud wt back to a 12.8 ppg wt well flowing,1' stream ck flow very little flow, 13 ppg mud wt l/d dp checked flow all the time while laying pipe.down r/d swivel load out whipstock,mills,serv rig,wate on wireline truck.r/u wireline go in hole, set rbp 5210 r/d wireline presser test rbp, 500 psi 15 mins (ok) n/d bop, n/u b1 flange. clean pits,change out liners in pumps,start rigging down

Dur (hrs)	Comment
3.00	circ get mud wt back to a 12.8 ppg wt well flowing,1' stream
0.50	ck flow very little flow, 13 ppg mud wt
6.00	l/d dp checked flow all the time while laying pipe.down
1.00	r/d swivel
1.00	load out whipstock,mills,serv rig,wate on wireline truck.
1.50	r/u wireline go in hole, set rbp 5210
0.50	r/d wireline
3.00	presser test rbp, 500 psi 15 mins (ok) n/d bop, n/u b1 flange.
7.50	clean pits,change out liners in pumps,start rigging down

Report Start Date	Report End Date	Operations Summary
3/31/2012	4/1/2012	rig down rig & all equipment, change out pump liners to 6 1/2", prep all equipment for rig move @ 6 am to Ratherford 8-32R

Dur (hrs)	Comment
24.00	rig down rig & all equipment, change out pump liners to 6 1/2", prep all equipment for rig move @ 6 am to Ratherford 8-32R

Report Start Date	Report End Date	Operations Summary
4/2/2012	4/2/2012	Road rig to 2022H spot in rig pit/ pump spot in rig location is soft where the rig is going be park LO/TO safety mtg with crew Was going spot in rig but rig got stuck so call Lansing for backhoe back drag location back fill around well head respot rig pit/ pump mws haul in tbg back to MWS yard RUWSU/Rig pump pit

Dur (hrs)	Comment
0.50	Road rig to 2022H
0.50	Jsa safety mtg
3.00	Rig got stuck when trying spot in call out lansing backhoe back drag location back fill around well head respot rig pump/ pit WSU
2.00	Spot in WSU respot rig other side of well head RUWSU secure guide wires rig up pump/ pit
0.50	SDFN
0.50	Travel to yard

Report Start Date	Report End Date	Operations Summary
4/3/2012	4/3/2012	Capital Job Jsa safety mtg check well pressure Tbg 0# Csg 0# NDWH/ NUBOP Rig floor hand rails spot in MWS with Tbg spot in weatherford with 7' packer set in well test with P/W 200# 1000# Good test LD packer PU baker retrieve tool TIH with Tbg picking off float tag 166jt with 10ft out 5212' close casing/ Tbg valves latch up rbp pressure came up 180# 15mins 240# We pump 5bbls 12.5 down casing pressure came up to 600# kick out rig pump watch it drop down to 400# open to rig pit choke back pressure drop down to 50# started to pick up flow at earth pit shut well in for 1hr pressure up to 250# slowly gaining. Talk with Greg Vick decided mud might got light and decided to roll the well again with 13.9 mud 190bbls in the morning to Pick up tools secure well (SIWP 300#) SNFN Travel to Yard Check well at 8:45 pm Tbg 350# Csg 380# Check 6am Tbg/ Csg 400#

Dur (hrs)	Comment
0.50	
0.50	Jsa safety Mtg
1.50	NDWH/ NUBOP Rig floor pick up 7" weatherford packer set in well test bop 200# 1000# Good test
3.50	Spot in Tbg pick up baker retrieve tool tih with tbg picking off float pick up 166jt tag up RBP 5212' close valves on casing/ Tubing latch on release RBP pressure came up to 180# up to 240# pump down casing 5bbls casing pressure up to 600# kick out pump
3.00	Watch pressure drop to 400# open it to casing choke it back pressure went down to 50# flow was picking up at earth pit shut well in to get pressure 15 mins up to 200# 1hr 300# decided to roll the well again with 13.5# mud in the morning
0.50	shut well in 300# pick up tools
0.50	

Report Start Date	Report End Date	Operations Summary
4/4/2012	4/4/2012	Capital Job Jsa safety mtg check well pressure Tbg 400# Csg 400# Waiting on 13.9# Mud to show on location for 5 hrs Greg Vick call @ 1pm mud not going to be ready tell in the morning release baker tool hand rig crew shut well in SNFN

Dur (hrs)	Comment
0.50	
0.50	Jsa safety mtg
5.00	Wait for mud 13.9# Crew change out packing on rig pump greg call mud not going be ready to it well be ready in the moring

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RESOLUTE NATURAL RESOURCES

Daily Activity Report

Well Name: Ratherford U 2022H

API Number	Section	Township	Range	Field Name	County	State/Province	Wellbore Config
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4,783.00		9.00		11/28/1983 00:00	1/3/1984 00:00

Dur (hrs)	Comment
0.50	pick up tools lock bop pipe rams shut down
2.00	Waiting on mud/ crew standby
0.50	

Report Start Date	Report End Date	Operations Summary
4/5/2012	4/5/2012	Capital Job Jsa safety mtg check well Tbg 500# Csg 500# spot in transport trucks with 14# mud rig up hard lines to tbg pump down casing out tbg pump 20bbls casing pressure up to 600# watch it for 10 mins holding pressure bled casing down to 50# pull 2 stands out pump down casing again pressure up 600# holding pressure pump down tbg out casing well start circulating pump 190 bbls 14# mud well pressure went down 0# RD tbg hard lines TOOH with tbg/ rbp pump 6bbls every 20 stands LD RBP PU BHA MS SN IPC 4jts YBTBG 7" TAC 164jts YBTBG 12ft 8ft subs 1 LDJT NDBOP Rig floor hand rails Set TAC 20K over string weight NUWH with 3k B1 flange with TBG valve RU Tbg hard lines spot in Lansing HTWS with 80bbls 10# pump pressure 900# circulated mud out to earth pit 190bbls HTWS Lansing pulling out of pit haul 60bbls mud to storge at mud plant weigh fluide at well head 10# SICP 100# Tbg flowing out to earth pit study flow line out lansing truck drivers Got with MVCI flow back crew they was going switch lines to flow back to tank when they see oil. pick up tools SDFN travel to yard TAC @ 5192.41 SN @ 5354.23 EOT @ 5378.23

Dur (hrs)	Comment
0.50	
0.50	Jsa safety Mtg
5.00	Spot in transport trucks with 14# mud pump down casing out tbg roll well
1.50	TOOH with Tbg with RBP PU BHA TIH with Tbg
1.50	pick up BHA TIH with production MS SN IPC 4jts TAC 164jts 12ft 8ft LJ
1.00	NDBOP Rig floor hand rails NUWH put Tbg valve on B1 flange
4.00	Rig up pump to tbg spot in lasning htws with 10# pump out 14# mud out to earth pit 900# on pump pressure pump 190 bbls circulate well SICP 100# Tbg flowing out to earth pit study flow
0.50	pick up tools SNFN
0.50	

Report Start Date	Report End Date	Operations Summary
4/6/2012	4/6/2012	Capital job Jsa safety mtg check well pressure tbg 10# flow casing had 200# RD MVCI flow back valves hard lines RU Swabbing tool RIH with tool fluide surface pull from 700ft 8th run fluide at 1500ft 8.9# pulling from 4000ft still no flow open casing to rig pit bled down well gas/ couple bbls oil well log off swab 9th run fluide at 1500ft FL pull from SN 9.1# 10-run1500ft FL 9.2# pull from SN 11-run 1500ft FL pull from SN 9.1 12-run 1000FT FL pull from SN 13-run 1000ft from SN 9.5 Total bbls swab back 210 bbls Tbg still not doing nothing/ casing blowing gas. Talk with Lynn Begay leave well open to flow back tank & release lansing truck driver RD swabbing tool pick up tools release rig crew SDFW well open to flow back tank (MVCI FLOW BACK ON LOCATION)

Dur (hrs)	Comment
0.50	
0.50	Jsa safety mtg
11.00	RU swabbing tool rig down flow back valves start swabbing well first run fluide at surface pull from 1500ft casing had 200# made 13 runs total well did not flow at all, open casing to pit blow well down to 0# flow out few oil log off total bbls 210bbls weigh at 9.5 on last run RD swabbing tool left Tbg open to slow back tank SI casing to build up pressure
0.50	Pick up tools secure well
0.50	travel

Report Start Date	Report End Date	Operations Summary
4/9/2012	4/9/2012	Capital Job Jsa safety Mgt MVCI flowing well back wait on call back if we going run rods Donnie Trimble call back 9:00am RD pump/ pit lansing moving equipment to H17B LJB Services plumbing in well head & flowline MVCI RD there equipment MO Lansing hauling out of flow back tank Dawn trucking sucking out of earth pit taking to envior tech RDWSUMOL

Dur (hrs)	Comment
0.50	
0.50	Jsa safety Mtg
1.00	Waiting call back if going run rods or not / Got call back RDWSU Lansing hauling fluide out of flow back tank
1.50	RDWSU/ Pump & Rig pit MOL

RECEIVED: Apr. 17, 2012

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-603-353

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME: UTU68931A

1. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ OTHER

8. WELL NAME and NUMBER: Ratherford 20-22H

2. NAME OF OPERATOR: Resolute Natural Resources

9. API NUMBER: 4303730930

3. ADDRESS OF OPERATOR: 1675 Broadway, Ste 1950 CITY Denver STATE CO ZIP 80202

PHONE NUMBER: (303) 573-4886

10. FIELD AND POOL, OR WILDCAT: Greater Aneth

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 2004 FNL, 2049 FWL

COUNTY: San Juan

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENW 20 41S 24E N

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: _____	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion: 03/30/2012	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: status of work-monthly status report
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Well was re-entered and drill-out of laterals begun on March 12, 2012. Daily well report is attached.

RECEIVED
APR 0 2 2012
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) Sherry Glass TITLE Sr Regulatory Technician

SIGNATURE Sherry Glass DATE 3/30/2012

(This space for State use only)

(5/2000) (See Instructions on Reverse Side)

RESOLUTE
NATURAL RESOURCES

Daily Well Report

Well Name: Ratherford U 2022H

API Number	Section	Township	Range	Field Name	County	State/Province	Wellbore Config
43037309300000	20	41S	24E	Ratherford	San Juan	Utah	Vertical

Ground Elevation (ft)	Casing Flange Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	Well Spud Date/Time	Rig Release Date/Time
4,783.00		9.00		11/28/1983 00:00	1/3/1984 00:00

Job Category	Primary Job Type	Secondary Job Type	Working Interest (%)
Drilling	Drilling - re-entry		58.97

Start Date	End Date	AFE Number
3/1/2012		10011003

Objective

Two horizontal laterals will be drilled from the existing 20-22H wellbore, which is located 2020' FNL & 2090' FWL of Sec. 20 T41S, R 24E in San Juan County, UT. The NW lateral will kick off from the wellbore at approximately 5372' MD and extend 900' to the NW, with a BH TVD of 5542' and MD of 6393'. The SE lateral will kick off from the wellbore at 5327' and extend 2250' to the SE, with a BH TVD of 5547' and MD of 7708'.

.

Contractor	Rig Number	Rig Type	Rig Start Date	Rig Release Date
Four Corners Well Service	6	Service	3/1/2012	3/6/2012
Contractor	Rig Number	Rig Type	Rig Start Date	Rig Release Date
D&J Drilling	1	Drilling - Triple	3/7/2012	

Report Number	Start Date	End Date	Summary
1	2/20/2012	2/20/2012	Hummingbird Surveying, LLC, Re-stake RU 20-22H Location, Time and Material, travel 37 miles
2	2/21/2012	2/21/2012	Take pumping unit apart load take to RU yard
3	2/22/2012	2/22/2012	JSA, safety meeting. Expose, cut out and remove transfer line.
4	3/1/2012	3/1/2012	Capital Re-entry Job. Location enlarged, flat and clean. Anchors tested 2/12, all marked. 3000# well head with slip type B-1 flange. No pumping unit, flowline, cathodic, rectifier. Ground wire going to casing valve. No power, fuses pulled at pole. Move rig from AU E-423 to location, Spot in rig pad and rig. Fill out JSA, hold tailgate safety meeting on rigging up. Set out all safety equipment. Fill out LO/TO forms, lock and tag one box on pole. Respot and level rig. Rig up pulling unit. Tighten and flag all guylines. Finish spotting in equipment and rod trailer. Rig up pump and pit. Check well presure's, 30psi on tubing, 90psi on casing. Open to pit, bleed off gas and oil. Load tubing. Test @500psi. Good test. Unseat pump, pump 20bbl's down tubing. Lay down polish rod, 70- 1", 60- 7/8, 66- 3/4, T-66 rods, 2 1/2x1 14x24' pump #FU-2038 and gas anchor. Shut well in.
5	3/2/2012	3/2/2012	Capital Re-entry Job. Fill out JSA, hold tailgate safety meeting on Weather, snow slips trips and falls, nippling up bops, pinch points. Warm up equipment. Check well presure's, 0psi on tubing, 10psi on casing. Open to pit, blow down gas. Pump 5bbl's down tubing, 20bbl's produced water down casing. Pull bolts, remove slips. Release tac, pull flange. Pick up and nipple up Bop-Hydril. Rig up floor, handrails, ladder and tongs. Pull 1jnt, add 7" packer, set 25' in hole. Test Bop-Hydril @ 400psi L, 1100psi H. Good test. Release and lay down packer. Pick up 3tag jnts and 4- 10' subs, tag 126.41' in hole. Lay down tag jnt's. Lunch. Tally, trip out of hole with 158jnt's 2 7/8, 7" tac, 6jnt's 2 7/8, 1jnt 3 1/2, sn, perf sub and mud anchor with bull plug @5501.09' with 126.41 tagged @5627.50ft. Shut well in.
6	3/3/2012	3/3/2012	Capital Re-entry Job. Fill out JSA, hold tailgate safety meeting on Tripping tubing, tongs, hand placement, pinch points. Warm up equipment. Check well presure, 0psi on casing. Open to pit, blow off gas to pit. Pick up tongs. OD & ID bit and scraper. Make up 6 1/8 bit and bit sub, 2jnt's tubing, 7" scraper. Trip in hole with 161jnt's. Pick up 7 jnt's. and 10'sub. Tag @5627.77ft. 10' below PBTD @5618ft. Hook up pump. Pump 300bbl's produced water, no circulation. Well on a vacum. Lay down 7 tag jnt's. Trip out of hole with 161jnt's, scraper, 2jnt's, bit sub and bit. Lay down bit and scraper. Shut well in.
7	3/5/2012	3/5/2012	Capital Re-entry Job. Fill out JSA, hold tailgate safety meeting on Wireline work, overhead loads, pinch points, watch cable. Warm up equipment. Check well presure, 0psi on casing. Open to pit, blow off gas. Nipple down drilling head from bops, prepare for wireline lubricating head. Spot in and rig up BlueJet WireLine truck. Rig up Scientific Drilling Gyro tool on wireline, go in hole to 3975' started losing wieght, pull up tool dragging. Pull out of hole, take off bow springs. Run back in hole to 5450, log to surface with Gyro tool. Lay down Gyro tool. Make up Baker wireline set RBP, run in hole, locate collars @5268, 5306 and 5343', set Baker wireline set RBP @5329ft. Pull out of hole, rig down BlueJet Wireline truck. Make up drilling head onto bops. Trip in hole with 144jnt's 2 7/8 tubing. Load hole with 50bbl's produced water. Test wireline RBP @500psi. Good test. Trip out of hole laying down 130jnt's tubing on float. Shut well in.
8	3/6/2012	3/6/2012	Capital Re-entry Job. Fill out JSA, hold tailgate safety meeting on Rigging down, laying down tubing, pinch points, hand placement. Warm up equipment. Check well presure, 0psi on tubing and casing. Open to pit. Continue trip out of hole laying down 14jnt's tubing on float. pick up 10 tag jnt's and 1jnt 3 1/2 lay down on float. Make up Baker RBP. Trip in hole with 18jnt's set RBP @616ft. Release setting tool. Load hole. Test RBP @500psi. Good test. Lunch. Trip out of hole laying down 18jnt's 2 7/8 tubing on float. Lay down Baker setting tool. Rig down tongs, handrails and floor. Nipple down Bops. Set on rack. Nipple up B-1 flange with tapped bull plug and neddle valve. Shut well in. Have tubing float moved out. Rig down pulling unit. Move off. Clean up location.

RESOLUTE
NATURAL RESOURCES

Daily Well Report

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Report Number	Start Date	End Date	Summary
9	3/7/2012	3/8/2012	Rd derrick on AU B414, load out all equip, road rig to location jsa on rigging up equip & communication, set sub structure & rig ramp, spot all equip & start ru of same rig up rig on ramp, set all guy lines and rig up floor ru lines to pits, set out all h2s monitors on all equip, bump test monitors ok, had 66 ppm h2s while unloading prod fluid, mustered crew and waited for h2s to clear nu 7 1/16" bop stack & choke manifold, pu 1 jt of 3 1/2" dp for bop stack test set 7 1/16" test plug in wh, pt blinds & pipes to 3000# hi & 250# lo good test, pt annular to 1500# hi & 250# lo, ok, pt ck manifold & valves 3000# hi 250# lo ok accumulator test of all bottles & precharge1200# ok, function test all controls ok cont to fill tanks and had 50 - 70 ppm hits of h2s, mustered every time alarms sounded, annular was tight releasing 7 1/16" test plug thru bag had to work several times rack out 100 jts of 3 1/2" dp & tally same mu Baker ret head on 3 1/2" tbg, tih to 616', latch & release rbp & start tooh w/same
10	3/8/2012	3/9/2012	Cont tooh w/9 stds 3 1/2" tbg & ld rbp Mu Baker 7" whipstock, 6 1/8" starter & finish mills Ru hardline to flowback tank and help w/forklift on sound walls Tih w/whipstock & 10 stds 3 1/2" tbg Ru pumps & rotating head oiler pu tally & rih w/singles to jt # 171, tagged up high @ 5301' recheck tally counted all tbg & tally was correct rih w/gyro on Blue Jet wl, found the same depth on wl pooh w/wl & rd wireline tooh w/toolstring, left whipstock in hole, mills in good shape ld mills, pu retrieving hook & jars, tih w/hook, latch whipstock @ 5301', work jars & release whipstock start tooh w/toolstring
11	3/9/2012	3/10/2012	finish tooh w/whipstock, ld whipstock showed marks of rbp on bottom of anchor mu retrieving head on 3 1/2" dp tih w/ret head to top of rbp @ 5301', circ hole, latch & release rbp pu 2' tool free tooh w/rbp & ld same wait on wirelineru wireline rih w/logging tool, csg inspection log 5400 - 4500', csg good thru section no signs of bad csg, pooh w/inspect log, rih w/gr & rbp on setting tool, correlate to 1983 log ck collars, set Baker rbp @ 5329', set down on plug verify set, pooh w/wl, rd sheaves in derrick wait on gyro hand, while waiting pu 6 1/8" starter & window mills, 1 jt dp & mu ubho sub, pu whipstock & scribe to ubho sub w/gyro tool in place, tih w/whipstock assembly to 5339' (10' difference in tally & wl depth recheck tally good tally) ru wireline oreint whipstock 305 deg NW, set whipstock, window will be 5333' - 5325' rd wl ru pwr swvl, break circ
12	3/10/2012	3/11/2012	mill 6 1/8" window off whipstock in 7" 26# csg from 5325' - 5329' repair popoff on rig pump cont milling from 5329' - 5339' window open from 5323' - 5333' + 6' of formation, work mills up/down thru window several times to insure smooth window ran soap sweep to clean hole & circ until no metal caught on ditch magnets hang back pwr swvl tooh w/mills on 86 stds 3 1/2" dp, gauge mills, starter mill is 1/16" under gauge of 6 1/8", finish mill is still in gauge, window in good shape for 6 1/8" bit, hook slot for whipstock @ 5325 - 5327', Note lost 1 hr for daylight savings time slip & cut 120' drill line on rig
13	3/11/2012	3/12/2012	M/U BHA, 6 1/8 Security QH20R bit jetted w/3 - 20s, 3 deg Motor, UBHO, 2 jts Flex Monel, UBHO, total bha length 91.76' Rig Service, Replace all three swabs & liners in pump 1 & pump 2 from 6 1/2" to 5". TIH 40 stds 3 1/2 DP R/U power swivel, Test motor & MWD tool, R/D power swivel.TIH 44 stds 3 1/2 DP to 5298' ru pwr swvl & wl for gyro, tih thru window to 5338', no problem going thru csg slide w/motor from 5338' - 5351' circ w/200 gpm prod fluid, wob 9 - 18 pts, 112 rpm @ bit, avg rop 22 fphreseat gyro on wl & take readings, inc 9 deg azimuth 302 deg slide w/motor from 5351' - 5361, circ 200 gpm prod fluid, wob 12 pts, 112 rpm @ bit, 10 fph reseat gyro on wl & take readings, inc 10 deg azimuth 302 deg cont sliding & taking gyro readings from 5361' - 5380', receiving good mwd pulses, rd gyro & wl slide from 5380' - 5425' w/200 gpm prod fluid, avg wob 20 pts, 112 rpm avg rop 25 fph mwd readings show build angle of 33 deg, decide to trip 3 deg motor & replace w/1.83 deg motor to finish build & land circ bottoms up until clean ld 3 singles to get back into csg w/ bha
14	3/12/2012	3/13/2012	circ bottoms up prep to trip motor ld 4 jts dp w/pwr swvl to trip out tooh w/dp & bha, c/o motor from 3 deg to 1.83 deg ck bit ok tih w/bha & 1.83 deg motor to 5425', drill & slide from 5425' - 5663', 110 rpm on bit, avg 20 pts, survey @ 5594', inc 57 deg, az 311, circ waiting on decision to trip motor from Resolute
15	3/13/2012	3/14/2012	circ, decision made from geology to continue drilling w/current motor & build slide ahead from 5667' - 6048' md, tvd 5587 w/10 - 12 pts on bit, 212 gpm, returns light oil @ shaker building up on pits, inc 92.9 deg az 313 deg @ 5998' md surveys 5873 93.1 deg, 5904 92.8 deg, 5935 92.9, 5967 92.9 deg, 5998 92.9 deg
16	3/14/2012	3/15/2012	Drill Ahead F/ 6048' T/ 6071' 115 strokes, 222 GPM, 12K on bit, 1375 psi. Rig Service Slide 6' F/ 6071' T/ 6077' Drill Ahead F/ 6077' T/ 6150' 115 strokes, 222 GPM, 12K on bit, 1375 psi. Slide 6' F/ 6150 T/ 6156 115 strokes, 376 GPM, 36K on bit, 1425 psi. Drill F/ 6156 T/ 6358', last survey @ 6358' md, 5566 tvd, inc 95.2 deg, az 312.60 deg, circ bottoms up ld 37 jts dp to 5250', kept hole full on tooh ck for flow, well dead before tooh tooh w/84 stds dp & bha, bit ok, bearings slightly loose, worn buttoms, ld directional tools

RESOLUTE
NATURAL RESOURCES

Daily Well Report

Well Name: Ratherford U 2022H

API Number	Section	Township	Range	Field Name	County	State/Province	Wellbore Config
43037309300000	20	41S	24E	Ratherford	San Juan	Utah	Vertical

Ground Elevation (ft)	Casing Flange Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	Well Spud Date/Time	Rig Release Date/Time
4,783.00		9.00		11/28/1983 00:00	1/3/1984 00:00

Report Number	Start Date	End Date	Summary
17	3/15/2012	3/16/2012	well had light light flow 2 gpm thru hcr diverter to pit, tih w/23 stds dp fo circ 10# brine top kill, skim oil off pits & transfer fluid from rig pit to closed loop to make room for 80bbls of 10# brine, load suction pit w/10# brine & circ from 1449', flowing to pit prep to circ pump 60 bbls 10#, returns heavy oil to pit, shut down pump, ck for flow, well flowing to pit, cont to skim oil off pits while tih w/40 more stds dp to 3970' circ 10# brine @ 3970', returns 10# then medium to heavy oil returns, haul 240 bbls more 10# brine, hauled off 80 bbls oil to battery 2 cont to skim oil off pits while tih w/19 stds to 5148' skim oil from rig & closed loop recovered another 44 bbls to ld frac tank, haul off 500 bbls prod fluid from rig pits, refill w/10# brine sicp 950#, sipp initial pump 1000#, circ 10# brine w/constant dp psi @ 1100#, pump 177 bbls, full circ 162 bbls, open chk ck for flow, 10# brine returns, ck siddp w pump at idle, 500#, calculates to 11.8 kwm, round up 10# brine back to 400 bbl storage tank, start hauling brine back to mud plant, pu 6 singles & rih w/same to 5330', swvl up sicp built to 650#, finish hauling 10# off loc, re-fill 400 bbl storage w/fresh h2o, haul 300 bbls 9.3 ppg mud from storage @ mud plant (AU B414 mud) received 1000 sks bar & 2 pallets of gel to build mud wt to 12 ppg, mix mud prep to pump kwm
18	3/16/2012	3/17/2012	weigh up, circ & condition mud to 12 ppg jsa on communication while pumping kill, circ 12 ppg kwm thru remote choke to LD tank, circ 205 bbls, shut down pump, open choke ck for flow, dead, close choke open straight line thru chk manifold to lined pit, circ 5 bbls, 12 ppg mud to pit, shut down pump circ hole w/12 ppg mud insure no more gas or oil returns LD 6 singles, tooh w/83 stds 3 1/2" dp jsa wl crew & rig crew on sheaves & lines in derrick, ru Black Warrior wl, nu lubricator adaptor to rotating head, ru wl lub rih w/gamma, run strip to correlate, pooh w/gamma, rih w/ccl & 7" Baker rbp, ck collars & set rbp @ 5258' WL depth, pooh w/wl tools, rd wl lub & sheaves psi test RBP 500#, pu & mu Baker 7" 3 deg whipstock on jt 3 1/2" dp, scribe & align whip to ubho sub for toolface, tih w/whipstock assembly on std 3 1/2" dp,tih w/whipstock assembly, orient @ 137 deg, set down on rbp to set anchor on whipstock, felt soft set & then dropped down 6', not positive whip is correctly set tooh w/ mills, tih w/retrieving hook for whipstock to insure set
19	3/17/2012	3/18/2012	riu wl & rih w/gyro to check whipstock azimuth take gyro readings while latched into slot on whipstock w/retrieving hook, verified whip set pulled 10k over string weight, cked orienttion 127 deg E/NE pooh w/gyro tools, rd wl tooh w/retrieving hook tih w/starter & finsih mills on 83 stds dp mill window from 5352' - 5362', mill 5' of formation, work mills thru window until smooth ran 1 gal foamer sweep from td outside window, returned light metal & trace of shale tooh w/83 stds dp & mills mu new 6 1/8" Security bit, dh motor, ubho sub, 2 monel collars, mwd tools
20	3/18/2012	3/19/2012	tih w/6 1/8" bit & directional bha, severe wind last 30 minutes of trip, slowed trip time down ru Blue jet wl & rih w/gyro tool seat in tool-face & ck orientation ru pwr swvl & pu singles while checking tool face angle, drill/slide from window bottom @ 5260' - 5267' gyro tools not responding, various tools attempted, 3 failures, wrong parts brought to repair, (Scientific only gyro game in town) rehead wl rope socket, continue attempting to gyro steer, intermittent signal from tool when in tool face, pooh & rd wl
21	3/19/2012	3/20/2012	Tooh w/directional tools on 3 1/2" dp, to change motor angle from 2.38 deg to 1.83 deg dial down motor to 1.83 deg to get out of window w/mwd tool, tih w/83 stds dp, ru pwr swvl & pu single to 5267', drill 5267' - 5296' take survey, 2.5 deg @ bottom of whipstock, estimated 5 deg in open hole section, hang back pwr swvl tooh w/directional tools on 3 1/2" dp, to dial up motor from 1.83 deg to 2.6 deg change motor from 1.83 to 2.6 deg , scribe motor to ubho sub & insert mwd assembly tih w/Security 6 1/8" QH20R bit, motor, monel collars, ubho sub & 83 stds 3 1/2" dp slide from 5296' - 5360' 12-15 fph, last srvy @ 5317' 12.1 deg
22	3/20/2012	3/21/2012	Cont sliding from 5360' - 5420', building angle to 28 deg, circ & srvy @ 5378' 28.3 deg az 157 deg, projection to bit 43 deg LD 7 singles to get bit back in 7" csg change out packing in power swivel w/High tech crew while starting tooh tooh w/bha, turn down motor bend from 2.6 deg to 1.83 deg, scribe same tih w/bha & 83 stds dp to window @ 5352' swvl up & pu singles to 5420' circ & srvy @ 5378' to orient toolface to high side slide from 5420' - 5563', srvy @ 5472' inc 41.5 deg, tvd 5449', bit projection inc 47 deg, az 137 deg, tvd 5479', rop 12-15 fph, 100% limestone returns upper lsmay
23	3/21/2012	3/22/2012	Cont to slide from 5563' - 5608' rig service, change trans oil on rigrotate 5608' - 5514', slide 5514' - 5644' srvy @ 5639', inc 58.8 deg, az 137 deg, projection to bit inc 65 deg , light oil returns slide & rotate from 5644'- 5827', srvy @ 5785' inc 82.4, az 136, projection to bit 89 deg, increased oil returns rotate 5827' - 5960', land on target 4' below projection, last srvy 5847', inc 92.5 deg, az 137.2 deg, decrease inc to 91 deg per request from Resolute Geologist drill ahead @ 70-80 fph, steady oil returns, skimming oil in closed loop pit, have recovered 12 bbls this am from pit tank

RESOLUTE
NATURAL RESOURCES

Daily Well Report

Well Name: Ratherford U 2022H

API Number	Section	Township	Range	Field Name	County	State/Province	Wellbore Config
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Ground Elevation (ft)	Casing Flange Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	Well Spud Date/Time	Rig Release Date/Time
4,783.00		9.00		11/28/1983 00:00	1/3/1984 00:00

Report Number	Start Date	End Date	Summary
24	3/22/2012	3/23/2012	drill 5827 to 5980' md circ bottoms up ld 23 jts 3 1/2" dp to window for rig repairs, well flowing light oil returns, decide to displace hole w/mix of 10# brine & prod fluid rig repair, change out transmission, haul off 240 bbls prod fluid from suction pit & replace w/240 bbls 10# brine circ from window, w/9.1 ppg fluid tih w/10 jts into open hole, circ tih w/13 jts 3 1/2" dp, pu 1 more single w/pwr swvl, circ, lost 25 bbls to hole, swvl up & start to drill from 5980' md, pwr swvl seal on hydraulic motor failed, severe hydraulic leak, contact High Tech for repairs ld 23 singles back to window, replace hyd drive on pwr swvl head, circ hole w/prod fluid while making repairs, hole stable no losses, skimmed oil off closed loop pit while circ, 18 bbls oil tih w/10 jts into open hole, curve in good shape no drag or ledges, circ bottoms up, no losses cont tih w/13 more jts dp to 5980' swvl up & resume drilling
25	3/23/2012	3/24/2012	pu off bottom 30' to 5950', pump off 200 bbls 9.1 ppg fluid to ld tank, refill w/prod fluid to balance formation, drlg f/5980 to 6030 dlrg f/6030 to 6426 rop slowed down skimed app 5 bbls oil off pits well making good green oil circ for bit trip tooh for bit, bit hrs 66, total footage 1166 ave 17.5 ft per hr,ld motor, called water truck to skim pits while tooh skimed app 6 bbls oil pu motor orentaite mu bit tih, bit #3 reed r22ap ser # d151724 / 3-18 jets, hole making gas break circ test down hole tools @2906' cont tih break circ @ window well making green oil tih w/last 15 stds pu swivel wash 2 jts to bottom no fill hole making good oil circ app 10 bbls of oil.
26	3/24/2012	3/25/2012	drlg f/6426 to 6456 hole making a lot of oil and gas drlg f/6426 to 6669 hole still making a lot of oil app 20 bbls in the last 10 hrs, catch tank for cutting has app 15 bbls of oil in it will suck out with vac truck.drlg f/ 6669 to 7034 hole still making a lot of oil app 22 bbl in the last 14 hrs survey @ 6992 inc 90.2 az 137.6 tvd 6577. catch tank app 10 bbls
27	3/25/2012	3/26/2012	drlg f/7034 to 7250 well making good oil skimed 20 bbls of oil off pits,with vac truck, pumped 25 bbls oil to lay down tank serv rig change pumps drlg f/7250 to 7567, slide f7567 to 7574, drlg f/7574 to 7620 wob 4000, rop 32 ft hr rot 80
28	3/26/2012	3/27/2012	drlg f/7620 to 7683 td, circ clean hole for toh to ld dp. ld 78 jts dp to window. pumped 600 bbl production water to ld tank cleaned rig pit. get 400 bbls mud f/bluk plant at 9.4wt mix bar to get wt to a 12.2 mixed 15.5 pallets, displaced 247 bbls production water in well w 12.2 wt mud. circ hole w 12.2 mud,got 2800 units gas back @ bottoms up check for flow flowing 1/2 stream @ shaker circ hole w 12.2 mud check for flow no flow tooh for directional tools
29	3/27/2012	3/28/2012	tooh w/dirc tools load out dirc tool serv rig,unload whip stock ret tool make up ret tool, tih pu 5 jts swivel up well started flowing circ bottoms up got back 50bbls of water cut mud back pumped to pit.circ & cond mud, starting mud wt 11.1 mix bar to a 12.6 kill mud wt.had 80 bbls mud hauled from bulk plant.mixed17 pallets bar, 12 cans defoamer
30	3/28/2012	3/29/2012	circ hang swivel tooh w/whipstock, break jars, ld pu RBP tool mu TIH w/tool, circ on top RBP, retrive RBP circ w rbp bottoms up ck flow flowing 1/2 stream circ & cond mud back to a 12.8 ppg wt.hang swivel cooh @ 30' ft a min to keep from swabing well ld rbp mu whipstock tool tih w/tool pu swivel circ ck flow flowing 1/2 stream
31	3/29/2012	3/30/2012	circ & cond mud to 12.8 ppg wt well still making water get a sidpp (470 psi) hang swivel m/n 1 lt dp latch on to whipstock, Tooh 85 stds w/whipstock,l/d whipstock,jars,ser rig,p/u rbp tools m/u rbp retrieveing tool, tih, p/u pup jt, p/u swivel break circ retrieve rbp, circ 11/2 times bottoms up.(ck for flow no flow) l/d 1 jt + pup jt hang swivel cooh 30 ft a min.m/u mills tih taged @ 4663. swivel up milled throw tag area not much there circ hang swivel cont tih to 5325. swivel up reamed f/5325 to 5634 reamed around window untill we saw no drag good and clean windows circ ck flow well flowing l/d 12 jts w/ swivel

FORM 6

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

ENTITY ACTION FORM

Operator: Resolute Natural Resources
Operator Account Number: N 2700
Address: 1675 Broadway, Ste. 1950
city Denver
state CO zip 80202
Phone Number: (303) 573-4883

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4303730930	Ratherford 20-22H		SENW	20	41S	24E	San Juan
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
D	6280	16280	3/12/2012			4/24/2012	
Comments: Penn							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
Comments:							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
Comments:							

RECEIVED
APR 02 2012
DIV. OF OIL, GAS & MINING

ACTION CODES:
- **A** - Establish new entity for new well (single well only)
- **B** - Add new well to existing entity (group or unit well)
- **C** - Re-assign well from one existing entity to another existing entity
- **D** - Re-assign well from one existing entity to a new entity
- **E** - Other (Explain in 'comments' section)

Sherry Glass
Name (Please Print)
Sherry Glass
Signature
Sr Regulatory Tech
Title
3/30/2012
Date

(5/2000)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: 14-20-603-353

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NAVAJO

7.UNIT or CA AGREEMENT NAME: RATHERFORD

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: 20-22H

2. NAME OF OPERATOR: RESOLUTE NATURAL RESOURCES

9. API NUMBER: 43037309300000

3. ADDRESS OF OPERATOR: 1675 Boradway Ste 1950 , Denver, CO, 80202 **PHONE NUMBER:** 303 534-4600 Ext

9. FIELD and POOL or WILDCAT: GREATER ANETH

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 2004 FNL 2049 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 20 Township: 41.0S Range: 24.0E Meridian: S

COUNTY: SAN JUAN

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☑ SUBSEQUENT REPORT Date of Work Completion: 5/7/2012	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☑ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Resolute Natural Resources has completed the Ratherford Unit 20-22H in the Desert Creek , Desert Creek IB, Desert Creek IC, and Desert Creek IIA formations on May 9, 2012. The well is producing oil at the rate of 97 BOPD, 59 MCFD and 122 BWPD with an electric pumping unit from an open-hole interval from 5255 ft to approximately 5545 ft(TVD) from two completed open laterals.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
June 27, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Sherry Glass	303 573-4886	Sr Regulatory Technician
SIGNATURE		**DATE**
N/A		6/26/2012

RECEIVED: Jun. 26, 2012

RESOLUTE NATURAL RESOURCES

Daily Well Report

Well Name: Ratherford U 2022H

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4,783.00		9.00		11/28/1983 00:00	1/3/1984 00:00

Job Category	Primary Job Type	Secondary Job Type	Working Interest (%)
Drilling	Drilling - re-entry		58.97

Start Date	End Date	AFE Number
3/1/2012	5/7/2012	10011003

Objective

Two horizontal laterals will be drilled from the existing 20-22H wellbore, which is located 2020' FNL & 2090' FWL of Sec. 20 T41S, R 24E in San Juan County, UT. The NW lateral will kick off from the wellbore at approximately 5372' MD and extend 900' to the NW, with a BH TVD of 5542' and MD of 6393'. The SE lateral will kick off from the wellbore at 5327' and extend 2250' to the SE, with a BH TVD of 5547' and MD of 7708'.

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Contractor	Rig Number	Rig Type	Rig Start Date	Rig Release Date
Four Corners Well Service	6	Service	3/1/2012	3/6/2012
D&J Drilling	1	Drilling - Triple	3/7/2012	4/1/2012
TOPPS	3028	Service	4/1/2012	4/9/2012
Key	64	Service	5/2/2012	5/7/2012

Report Number	Start Date	End Date	Summary
1	2/20/2012	2/20/2012	Hummingbird Surveying, LLC, Re-stake RU 20-22H Location, Time and Material, travel 37 miles
2	2/21/2012	2/21/2012	Take pumping unit apart load take to RU yard
3	2/22/2012	2/22/2012	JSA, safety meeting. Expose, cut out and remove transfer line.
4	3/1/2012	3/1/2012	Capital Re-entry Job. Location enlarged, flat and clean. Anchors tested 2/12, all marked. 3000# well head with slip type B-1 flange. No pumping unit, flowline, cathodic, rectifier. Ground wire going to casing valve. No power, fuses pulled at pole. Move rig from AU E-423 to location, Spot in rig pad and rig. Fill out JSA, hold tailgate safety meeting on rigging up. Set out all safety equipment. Fill out LO/TO forms, lock and tag one box on pole. Respot and level rig. Rig up pulling unit. Tighten and flag all guylines. Finish spotting in equipment and rod trailer. Rig up pump and pit. Check well presure's, 30psi on tubing, 90psi on casing. Open to pit, bleed off gas and oil. Load tubing. Test @500psi. Good test. Unseat pump, pump 20bbl's down tubing. Lay down polish rod, 70- 1", 60- 7/8, 66- 3/4, T-66 rods, 2 1/2x1 14x24' pump #FU-2038 and gas anchor. Shut well in.
5	3/2/2012	3/2/2012	Capital Re-entry Job. Fill out JSA, hold tailgate safety meeting on Weather, snow slips trips and falls, nippling up bops, pinch points. Warm up equipment. Check well presure's, 0psi on tubing, 10psi on casing. Open to pit, blow down gas. Pump 5bbl's down tubing, 20bbl's produced water down casing. Pull bolts, remove slips. Release tac, pull flange. Pick up and nipple up Bop-Hydril. Rig up floor, handrails, ladder and tongs. Pull 1jnt, add 7" packer, set 25' in hole. Test Bop-Hydril @ 400psi L, 1100psi H. Good test. Release and lay down packer. Pick up 3tag jnts and 4- 10' subs, tag 126.41' in hole. Lay down tag jnt's. Lunch. Tally, trip out of hole with 158jnt's 2 7/8, 7" tac, 6jnt's 2 7/8, 1jnt 3 1/2, sn, perf sub and mud anchor with bull plug @5501.09' with 126.41 tagged @5627.50ft. Shut well in.
6	3/3/2012	3/3/2012	Capital Re-entry Job. Fill out JSA, hold tailgate safety meeting on Tripping tubing, tongs, hand placement, pinch points. Warm up equipment. Check well presure, 0psi on casing. Open to pit, blow off gas to pit. Pick up tongs. OD & ID bit and scraper. Make up 6 1/8 bit and bit sub, 2jnt's tubing, 7" scraper. Trip in hole with 161jnt's. Pick up 7 jnt's. and 10'sub. Tag @5627.77ft. 10' below PBTD @5618ft. Hook up pump. Pump 300bbl's produced water, no circulation. Well on a vacum. Lay down 7 tag jnt's. Trip out of hole with 161jnt's, scraper, 2jnt's, bit sub and bit. Lay down bit and scraper. Shut well in.
7	3/5/2012	3/5/2012	Capital Re-entry Job. Fill out JSA, hold tailgate safety meeting on Wireline work, overhead loads, pinch points, watch cable. Warm up equipment. Check well presure, 0psi on casing. Open to pit, blow off gas. Nipple down drilling head from bops, prepare for wireline lubricating head. Spot in and rig up BlueJet WireLine truck. Rig up Scientific Drilling Gyro tool on wireline, go in hole to 3975' started losing wieght, pull up tool dragging. Pull out of hole, take off bow springs. Run back in hole to 5450, log to surface with Gyro tool. Lay down Gyro tool. Make up Baker wireline set RBP, run in hole, locate collars @5268, 5306 and 5343', set Baker wireline set RBP @5329ft. Pull out of hole, rig down BlueJet Wireline truck. Make up drilling head onto bops. Trip in hole with 144jnt's 2 7/8 tubing. Load hole with 50bbl's produced water. Test wireline RBP @500psi. Good test. Trip out of hole laying down 130jnt's tubing on float. Shut well in.
8	3/6/2012	3/6/2012	Capital Re-entry Job. Fill out JSA, hold tailgate safety meeting on Rigging down, laying down tubing, pinch points, hand placement. Warm up equipment. Check well presure, 0psi on tubing and casing. Open to pit. Continue trip out of hole laying down 14jnt's tubing on float. pick up 10 tag jnt's and 1jnt 3 1/2 lay down on float. Make up Baker RBP. Trip in hole with 18jnt's set RBP @616ft. Release setting tool. Load hole. Test RBP @500psi. Good test. Lunch. Trip out of hole laying down 18jnt's 2 7/8 tubing on float. Lay down Baker setting tool. Rig down tongs, handrails and floor. Nipple down Bops. Set on rack. Nipple up B-1 flange with tapped bull plug and neddle valve. Shut well in. Have tubing float moved out. Rig down pulling unit. Move off. Clean up location.

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Daily Well Report

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9	3/7/2012	3/8/2012	Rd derrick on AU B414, load out all equip, road rig to location jsa on rigging up equip & communication, set sub structure & rig ramp, spot all equip & start ru of same rig up rig on ramp, set all guy lines and rig up floor ru lines to pits, set out all h2s monitors on all equip, bump test monitors ok, had 66 ppm h2s while unloading prod fluid, mustered crew and waited for h2s to clear nu 7 1/16" bop stack & choke manifold, pu 1 jt of 3 1/2" dp for bop stack test set 7 1/16" test plug in wh, pt blinds & pipes to 3000# hi & 250# lo good test, pt annular to 1500# hi & 250# lo, ok, pt ck manifold & valves 3000# hi 250# lo ok accumulator test of all bottles & precharge1200# ok, function test all controls ok cont to fill tanks and had 50 - 70 ppm hits of h2s, mustered every time alarms sounded, annular was tight releasing 7 1/16" test plug thru bag had to work several times rack out 100 jts of 3 1/2" dp & tally same mu Baker ret head on 3 1/2" tbg, tih to 616', latch & release rbp & start tooh w/same
10	3/8/2012	3/9/2012	Cont tooh w/9 stds 3 1/2" tbg & ld rbp Mu Baker 7" whipstock, 6 1/8" starter & finish mills Ru hardline to flowback tank and help w/forklift on sound walls Tih w/whipstock & 10 stds 3 1/2" tbg Ru pumps & rotating head oiler pu tally & rih w/singles to jt # 171, tagged up high @ 5301' recheck tally counted all tbg & tally was correct rih w/gyro on Blue Jet wl, found the same depth on wl pooh w/wl & rd wireline tooh w/toolstring, left whipstock in hole, mills in good shape ld mills, pu retrieving hook & jars, tih w/hook, latch whipstock @ 5301', work jars & release whipstock start tooh w/toolstring
11	3/9/2012	3/10/2012	finish tooh w/whipstock, ld whipstock showed marks of rbp on bottom of anchor mu retrieving head on 3 1/2" dp tih w/ret head to top of rbp @ 5301', circ hole, latch & release rbp pu 2' tool free tooh w/rbp & ld same wait on wirelineru wireline rih w/logging tool, csg inspection log 5400 - 4500', csg good thru section no signs of bad csg, pooh w/inspect log, rih w/gr & rbp on setting tool, correlate to 1983 log ck collars, set Baker rbp @ 5329', set down on plug verify set, pooh w/wl, rd sheaves in derrick wait on gyro hand, while waiting pu 6 1/8" starter & window mills, 1 jt dp & mu ubho sub, pu whipstock & scribe to ubho sub w/gyro tool in place, tih w/whipstock assembly to 5339' (10' difference in tally & wl depth recheck tally good tally) ru wireline oreint whipstock 305 deg NW, set whipstock, window will be 5333' - 5325' rd wl ru pwr swvl, break circ
12	3/10/2012	3/11/2012	mill 6 1/8" window off whipstock in 7" 26# csg from 5325' - 5329' repair popoff on rig pump cont milling from 5329' - 5339' window open from 5323' - 5333' + 6' of formation, work mills up/down thru window several times to insure smooth window ran soap sweep to clean hole & circ until no metal caught on ditch magnets hang back pwr swvl tooh w/mills on 86 stds 3 1/2" dp, gauge mills, starter mill is 1/16" under gauge of 6 1/8", finish mill is still in gauge, window in good shape for 6 1/8" bit, hook slot for whipstock @ 5325 - 5327', Note lost 1 hr for daylight savings time slip & cut 120' drill line on rig
13	3/11/2012	3/12/2012	M/U BHA, 6 1/8 Security QH20R bit jetted w/3 - 20s, 3 deg Motor, UBHO, 2 jts Flex Monel, UBHO, total bha length 91.76' Rig Service, Replace all three swabs & liners in pump 1 & pump 2 from 6 1/2" to 5". TIH 40 stds 3 1/2 DP R/U power swivel, Test motor & MWD tool, R/D power swivel.TIH 44 stds 3 1/2 DP to 5298' ru pwr swvl & wl for gyro, tih thru window to 5338', no problem going thru csg slide w/motor from 5338' - 5351' circ w/200 gpm prod fluid, wob 9 - 18 pts, 112 rpm @ bit, avg rop 22 fphreseat gyro on wl & take readings, inc 9 deg azimuth 302 deg slide w/motor from 5351' - 5361, circ 200 gpm prod fluid, wob 12 pts, 112 rpm @ bit, 10 fph reseat gyro on wl & take readings, inc 10 deg azimuth 302 deg cont sliding & taking gyro readings from 5361' - 5380', receiving good mwd pulses, rd gyro & wl slide from 5380' - 5425' w/200 gpm prod fluid, avg wob 20 pts, 112 rpm avg rop 25 fph mwd readings show build angle of 33 deg, decide to trip 3 deg motor & replace w/1.83 deg motor to finish build & land circ bottoms up until clean ld 3 singles to get back into csg w/ bha
14	3/12/2012	3/13/2012	circ bottoms up prep to trip motor ld 4 jts dp w/pwr swvl to trip out tooh w/dp & bha, c/o motor from 3 deg to 1.83 deg ck bit ok tih w/bha & 1.83 deg motor to 5425', drill & slide from 5425' - 5663', 110 rpm on bit, avg 20 pts, survey @ 5594', inc 57 deg, az 311, circ waiting on decision to trip motor from Resolute
15	3/13/2012	3/14/2012	circ, decision made from geology to continue drilling w/current motor & build slide ahead from 5667' - 6048' md, tvd 5587 w/10 - 12 pts on bit, 212 gpm, returns light oil @ shaker building up on pits, inc 92.9 deg az 313 deg @ 5998' md surveys 5873 93.1 deg, 5904 92.8 deg, 5935 92.9, 5967 92.9 deg, 5998 92.9 deg
16	3/14/2012	3/15/2012	Drill Ahead F/ 6048' T/ 6071' 115 strokes, 222 GPM, 12K on bit, 1375 psi. Rig Service Slide 6' F/ 6071' T/ 6077' Drill Ahead F/ 6077' T/ 6150' 115 strokes, 222 GPM, 12K on bit, 1375 psi. Slide 6' F/ 6150 T/ 6156 115 strokes, 376 GPM, 36K on bit, 1425 psi. Drill F/ 6156 T/ 6358', last survey @ 6358' md, 5566 tvd, inc 95.2 deg, az 312.60 deg, circ bottoms up ld 37 jts dp to 5250', kept hole full on tooh ck for flow, well dead before tooh tooh w/84 stds dp & bha, bit ok, bearings slightly loose, worn buttoms, ld directional tools

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17	3/15/2012	3/16/2012	well had light light flow 2 gpm thru hcr diverter to pit, tih w/23 stds dp fo circ 10# brine top kill, skim oil off pits & transfer fluid from rig pit to closed loop to make room for 80bbls of 10# brine, load suction pit w/10# brine & circ from 1449', flowing to pit prep to circ pump 60 bbls 10#, returns heavy oil to pit, shut down pump, ck for flow, well flowing to pit, cont to skim oil off pits while tih w/40 more stds dp to 3970' circ 10# brine @ 3970', returns 10# then medium to heavy oil returns, haul 240 bbls more 10# brine, hauled off 80 bbls oil to battery 2 cont to skim oil off pits while tih w/19 stds to 5148' skim oil from rig & closed loop recovered another 44 bbls to ld frac tank, haul off 500 bbls prod fluid from rig pits, refill w/10# brine sicp 950#, sipp initial pump 1000#, circ 10# brine w/constant dp psi @ 1100#, pump 177 bbls, full circ 162 bbls, open chk ck for flow, 10# brine returns, ck siddp w pump at idle, 500#, calculates to 11.8 kwm, round up 10# brine back to 400 bbl storage tank, start hauling brine back to mud plant, pu 6 singles & rih w/same to 5330', swvl up sicp built to 650#, finish hauling 10# off loc, re-fill 400 bbl storage w/fresh h2o, haul 300 bbls 9.3 ppg mud from storage @ mud plant (AU B414 mud) received 1000 sks bar & 2 pallets of gel to build mud wt to 12 ppg, mix mud prep to pump kwm
18	3/16/2012	3/17/2012	weigh up, circ & condition mud to 12 ppg jsa on communication while pumping kill, circ 12 ppg kwm thru remote choke to LD tank, circ 205 bbls, shut down pump, open choke ck for flow, dead, close choke open straight line thru chk manifold to lined pit, circ 5 bbls, 12 ppg mud to pit, shut down pump circ hole w/12 ppg mud insure no more gas or oil returns LD 6 singles, tooh w/83 stds 3 1/2" dp jsa wl crew & rig crew on sheaves & lines in derrick, ru Black Warrior wl, nu lubricator adaptor to rotating head, ru wl lub rih w/gamma, run strip to correlate, pooh w/gamma, rih w/ccl & 7" Baker rbp, ck collars & set rbp @ 5258' WL depth, pooh w/wl tools, rd wl lub & sheaves psi test RBP 500#, pu & mu Baker 7" 3 deg whipstock on jt 3 1/2" dp, scribe & align whip to ubho sub for toolface, tih w/whipstock assembly on std 3 1/2" dp,tih w/whipstock assembly, orient @ 137 deg, set down on rbp to set anchor on whipstock, felt soft set & then dropped down 6', not positive whip is correctly set tooh w/ mills, tih w/retrieving hook for whipstock to insure set
19	3/17/2012	3/18/2012	riu wl & rih w/gyro to check whipstock azimuth take gyro readings while latched into slot on whipstock w/retrieving hook, verified whip set pulled 10k over string weight, cked orienttion 127 deg E/NE pooh w/gyro tools, rd wl tooh w/retrieving hook tih w/starter & finsih mills on 83 stds dp mill window from 5352' - 5362', mill 5' of formation, work mills thru window until smooth ran 1 gal foamer sweep from td outside window, returned light metal & trace of shale tooh w/83 stds dp & mills mu new 6 1/8" Security bit, dh motor, ubho sub, 2 monel collars, mwd tools
20	3/18/2012	3/19/2012	tih w/6 1/8" bit & directional bha, severe wind last 30 minutes of trip, slowed trip time down ru Blue jet wl & rih w/gyro tool seat in tool-face & ck orientation ru pwr swvl & pu singles while checking tool face angle, drill/slide from window bottom @ 5260' - 5267' gyro tools not responding, various tools attempted, 3 failures, wrong parts brought to repair, (Scientific only gyro game in town) rehead wl rope socket, continue attempting to gyro steer, intermittent signal from tool when in tool face, pooh & rd wl
21	3/19/2012	3/20/2012	Tooh w/directional tools on 3 1/2" dp, to change motor angle from 2.38 deg to 1.83 deg dial down motor to 1.83 deg to get out of window w/mwd tool, tih w/83 stds dp, ru pwr swvl & pu single to 5267', drill 5267' - 5296' take survey, 2.5 deg @ bottom of whipstock, estimated 5 deg in open hole section, hang back pwr swvl tooh w/directional tools on 3 1/2" dp, to dial up motor from 1.83 deg to 2.6 deg change motor from 1.83 to 2.6 deg , scribe motor to ubho sub & insert mwd assembly tih w/Security 6 1/8" QH20R bit, motor, monel collars, ubho sub & 83 stds 3 1/2" dp slide from 5296' - 5360' 12-15 fph, last srvy @ 5317' 12.1 deg
22	3/20/2012	3/21/2012	Cont sliding from 5360' - 5420', building angle to 28 deg, circ & srvy @ 5378' 28.3 deg az 157 deg, projection to bit 43 deg LD 7 singles to get bit back in 7" csg change out packing in power swivel w/High tech crew while starting tooh tooh w/bha, turn down motor bend from 2.6 deg to 1.83 deg, scribe same tih w/bha & 83 stds dp to window @ 5352' swvl up & pu singles to 5420' circ & srvy @ 5378' to orient toolface to high side slide from 5420' - 5563', srvy @ 5472' inc 41.5 deg, tvd 5449', bit projection inc 47 deg, az 137 deg, tvd 5479', rop 12-15 fph, 100% limestone returns upper Ismay
23	3/21/2012	3/22/2012	Cont to slide from 5563' - 5608' rig service, change trans oil on rigrotate 5608' - 5514', slide 5514' - 5644' srvy @ 5639', inc 58.8 deg, az 137 deg, projection to bit inc 65 deg , light oil returns slide & rotate from 5644'- 5827', srvy @ 5785' inc 82.4, az 136, projection to bit 89 deg, increased oil returns rotate 5827' - 5960', land on target 4' below projection, last srvy 5847', inc 92.5 deg, az 137.2 deg, decrease inc to 91 deg per request from Resolute Geologist drill ahead @ 70-80 fph, steady oil returns, skimming oil in closed loop pit, have recovered 12 bbls this am from pit tank

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Report Number	Start Date	End Date	Summary
24	3/22/2012	3/23/2012	drill 5827 to 5980' md circ bottoms up ld 23 jts 3 1/2" dp to window for rig repairs, well flowing light oil returns, decide to displace hole w/mix of 10# brine & prod fluid rig repair, change out transmission, haul off 240 bbls prod fluid from suction pit & replace w/240 bbls 10# brine circ from window, w/9.1 ppg fluid tih w/10 jts into open hole, circ tih w/13 jts 3 1/2" dp, pu 1 more single w/pwr swvl, circ, lost 25 bbls to hole, swvl up & start to drill from 5980' md, pwr swvl seal on hydraulic motor failed, severe hydraulic leak, contact High Tech for repairs ld 23 singles back to window, replace hyd drive on pwr swvl head, circ hole w/prod fluid while making repairs, hole stable no losses, skimmed oil off closed loop pit while circ, 18 bbls oil tih w/10 jts into open hole, curve in good shape no drag or ledges, circ bottoms up, no losses cont tih w/13 more jts dp to 5980' swvl up & resume drilling
25	3/23/2012	3/24/2012	pu off bottom 30' to 5950', pump off 200 bbls 9.1 ppg fluid to ld tank, refill w/prod fluid to balance formation, drlg f/5980 to 6030 dlrg f/6030 to 6426 rop slowed down skimed app 5 bbls oil off pits well making good green oil circ for bit trip tooh for bit, bit hrs 66, total footage 1166 ave 17.5 ft per hr,ld motor, called water truck to skim pits while tooh skimed app 6 bbls oil pu motor orentaite mu bit tih, bit #3 reed r22ap ser # d151724 / 3-18 jets, hole making gas break circ test down hole tools @2906' cont tih break circ @ window well making green oil tih w/last 15 stds pu swivel wash 2 jts to bottom no fill hole making good oil circ app 10 bbls of oil.
26	3/24/2012	3/25/2012	drlg f/6426 to 6456 hole making a lot of oil and gas drlg f/6426 to 6669 hole still making a lot of oil app 20 bbls in the last 10 hrs, catch tank for cutting has app 15 bbls of oil in it will suck out with vac truck.drlg f/ 6669 to 7034 hole still making a lot of oil app 22 bbl in the last 14 hrs survey @ 6992 inc 90.2 az 137.6 tvd 6577. catch tank app 10 bbls
27	3/25/2012	3/26/2012	drlg f/7034 to 7250 well making good oil skimed 20 bbls of oil off pits,with vac truck, pumped 25 bbls oil to lay down tank serv rig change pumps drlg f/7250 to 7567, slide f7567 to 7574, drlg f/7574 to 7620 wob 4000, rop 32 ft hr rot 80
28	3/26/2012	3/27/2012	drlg f/7620 to 7683 td, circ clean hole for toh to ld dp. ld 78 jts dp to window. pumped 600 bbl production water to ld tank cleaned rig pit. get 400 bbls mud f/bluk plant at 9.4wt mix bar to get wt to a 12.2 mixed 15.5 pallets, displaced 247 bbls production water in well w 12.2 wt mud. circ hole w 12.2 mud,got 2800 units gas back @ bottoms up check for flow flowing 1/2 stream @ shaker circ hole w 12.2 mud check for flow no flow tooh for directional tools
29	3/27/2012	3/28/2012	tooh w/dirc tools load out dirc tool serv rig,unload whip stock ret tool make up ret tool, tih pu 5 jts swivel up well started flowing circ bottoms up got back 50bbls of water cut mud back pumped to pit.circ & cond mud, starting mud wt 11.1 mix bar to a 12.6 kill mud wt.had 80 bbls mud hauled from bulk plant.mixed17 pallets bar, 12 cans defoamer
30	3/28/2012	3/29/2012	circ hang swivel tooh w/whipstock, break jars, ld pu RBP tool mu TIH w/tool, circ on top RBP, retrive RBP circ w rbp bottoms up ck flow flowing 1/2 stream circ & cond mud back to a 12.8 ppg wt.hang swivel cooh @ 30' ft a min to keep from swabing well ld rbp mu whipstock tool tih w/tool pu swivel circ ck flow flowing 1/2 stream
31	3/29/2012	3/30/2012	circ & cond mud to 12.8 ppg wt well still making water get a sidpp (470 psi) hang swivel m/n 1 lt dp latch on to whipstock, Tooh 85 stds w/whipstock,l/d whipstock,jars,ser rig,p/u rbp tools m/u rbp retrieveing tool, tih, p/u pup jt, p/u swivel break circ retrieve rbp, circ 11/2 times bottoms up.(ck for flow no flow) l/d 1 jt + pup jt hang swivel cooh 30 ft a min.m/u mills tih taged @ 4663. swivel up milled throw tag area not much there circ hang swivel cont tih to 5325. swivel up reamed f/5325 to 5634 reamed around window untill we saw no drag good and clean windows circ ck flow well flowing l/d 12 jts w/ swivel
32	3/30/2012	3/31/2012	circ get mud wt back to a 12.8 ppg wt well flowing,1' stream ck flow very little flow, 13 ppg mud wt l/d dp checked flow all the time while laying pipe.down r/d swivel load out whipstock,mills,serv rig,wate on wireline truck.r/u wireline go in hole, set rbp 5210 r/d wireline presser test rbp, 500 psi 15 mins (ok) n/d bop, n/u b1 flange. clean pits,change out liners in pumps,start rigging down
33	3/31/2012	4/1/2012	rig down rig & all equipment, change out pump liners to 6 1/2", prep all equipment for rig move @ 6 am to Ratherford 8-32R
34	4/2/2012	4/2/2012	Road rig to 2022H spot in rig pit/ pump spot in rig location is soft where the rig is going be park LO/TO safety mtg with crew Was going spot in rig but rig got stuck so call Lansing for backhoe back drag location back fill around well head respot rig pit/ pump mws haul in tbg back to MWS yard RUWSU/Rig pump pit
35	4/3/2012	4/3/2012	Capital Job Jsa safety mtg check well pressure Tbg 0# Csg 0# NDWH/ NUBOP Rig floor hand rails spot in MWS with Tbg spot in weatherford with 7' packer set in well test with P/W 200# 1000# Good test LD packer PU baker retrieve tool TIH with Tbg picking off float tag 166jt with 10ft out 5212' close casing/ Tbg valves latch up rbp pressure came up 180# 15mins 240# We pump 5bbls 12.5 down casing pressure came up to 600# kick out rig pump watch it drop down to 400# open to rig pit choke back pressure drop down to 50# started to pick up flow at earth pit shut well in for 1hr pressure up to 250# slowly gaining. Talk with Greg Vick decided mud might got light and decided to roll the well again with 13.9 mud 190bbls in the morning to Pick up tools secure well (SIWP 300#) SNFN Travel to Yard Check well at 8:45 pm Tbg 350# Csg 380# Check 6am Tbg/ Csg 400#

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36	4/4/2012	4/4/2012	Capital Job Jsa safety mtg check well pressure Tbg 400# Csg 400# Waiting on 13.9# Mud to show on location for 5 hrs Greg Vick call @ 1pm mud not going to be ready tell in the morning release baker tool hand rig crew shut well in SNFN
37	4/5/2012	4/5/2012	Capital Job Jsa safety mtg check well Tbg 500# Csg 500# spot in transport trucks with 14# mud rig up hard lines to tbg pump down casing out tbg pump 20bbls casing pressure up to 600# watch it for 10 mins holding pressure bled casing down to 50# pull 2 stands out pump down casing again pressure up 600# holding pressure pump down tbg out casing well start circulating pump 190 bbls 14# mud well pressure went down 0# RD tbg hard lines TOOH with tbg/ rbp pump 6bbls every 20 stands LD RBP PU BHA MS SN IPC 4jts YBTBG 7" TAC 164jts YBTBG 12ft 8ft subs 1 LDJT NDBOP Rig floor hand rails Set TAC 20K over string weight NUWH with 3k B1 flange with TBG valve RU Tbg hard lines spot in Lansing HTWS with 80bbls 10# pump pressure 900# circulated mud out to earth pit 190bbls HTWS Lansing pulling out of pit haul 60bbls mud to storge at mud plant weigh fluide at well head 10# SICP 100# Tbg flowing out to earth pit study flow line out lansing truck drivers Got with MVCI flow back crew they was going switch lines to flow back to tank when they see oil. pick up tools SDFN travel to yard TAC @ 5192.41 SN @ 5354.23 EOT @ 5378.23
38	4/6/2012	4/6/2012	Capital job Jsa safety mtg check well pressure tbg 10# flow casing had 200# RD MVCI flow back valves hard lines RU Swabbing tool RIH with tool fluide surface pull from 700ft 8th run fluide at 1500ft 8.9# pulling from 4000ft still no flow open casing to rig pit bled down well gas/ couple bbls oil well log off swab 9th run fluide at 1500ft FL pull from SN 9.1# 10-run1500ft FL 9.2# pull from SN 11-run 1500ft FL pull from SN 9.1 12-run 1000FT FL pull from SN 13-run 1000ft from SN 9.5 Total bbls swab back 210 bbls Tbg still not doing nothing/ casing blowing gas. Talk with Lynn Begay leave well open to flow back tank & release lansing truck driver RD swabbing tool pick up tools release rig crew SDFW well open to flow back tank (MVCI FLOW BACK ON LOCATION)
39	4/9/2012	4/9/2012	Capital Job Jsa safety Mgt MVCI flowing well back wait on call back if we going run rods Donnie Trimble call back 9:00am RD pump/ pit lansing moving equipment to H17B LJB Services plumbing in well head & flowline MVCI RD there equipment MO Lansing hauling out of flow back tank Dawn trucking sucking out of earth pit taking to envior tech RDWSUMOL
40	5/2/2012	5/2/2012	Location clean & level, Noise walls (8 sections, braced, cmt wt both sides, stakes). 640D Lufkin on loc. All new wiring, transformers, piping. Anchors tested 2/12, all marked. 3000# well head with slip type B-1 flange. Low elec lines on north side of loc. Haul equip & set on loc. Rig crew to loc. JSA. Tailgate safety mtg. (Pinch pts, Ck hammer handles). Set out all safety equip. LOTO main elec box. Weights dwn on pumping unit. SITP 36 psig. SICP 40 psig. NU piping to rig pit. (Wait for mechanic to inpect rear end on rig @ RU 1341. (Will change out rearend on RU 2022H). Road rig fr/RU 1341 to loc JSA. Tailgate safety mtg. (Scoping up rig derrick. Watch all lines & each other.) Spot in rig. RU WSU. Secure rig & loc. SDFN
41	5/3/2012	5/3/2012	JSA. Tailgate safety mtg. (Picking up rods, fluids, pressure). SITP 40 psig. SICP 50 psig. Bd well to rig pit. Break out piping on wellhead. Ppd dwn tbg w/10 bbls 10# brine. MI & spot rod trlr. Put cplgs on rods & SB's. PU & TIH w/1.500 X 16' gas anchor, 2 1/2" X 2" X 24', RXBC Brass NiCarb control, 24' .001", high volume cages, SN/NC vlv description, 220" max stroke, 3/4" pin 3 pc V12 guide. (Pump #WMCV-147), 2 - 7/8 X 4' stabilizer w/molded guides, 13 - 1 1/2" Sinker Bars, (Set of elevators not closing correctly, went to Key 670 and got another set), 122 - 7/8" T66 SKR XC HS L/C sucker rods, 77 - 1" T66 sucker rods, 3 - 1" T66 pony rods (8', 6', & 4'). PU 1 1/2" X 26' PR, load cell & Hercules stuffing box. Leave hanging in elevators. SWI. Secure loc & rig. SDFN
42	5/4/2012	5/4/2012	JSA. Tailgate Safety Mtg. (Rod carding & Loading the hole, Press testing). SITP 0 psig. FCP 50 psig. Replace bridle on Horses Head. Wait on Electrical Dept to put power to transformers. Wait on pumping unit techs for parts to assemble horses head & bridle. Electrical had to set transformers to lower voltage & install fuses. Had to redo wiring in main electrical box for pumping unit. Rock over unit. Adjust brake on unit. Rock unit ovr to get wts up. Lower polish rod & clamp off polish rod. Attemp to install horses head. Wrong horses head for pumping unit. LD HH . Could not get it to work (Unit L20, HH O19). Lower wts. Have electrical tag out in case they want to get crane & intall HH. Secure rig & loc. SDTM
43	5/7/2012	5/7/2012	JSA. Tailgate safety mtg. (Harness's, pinch pts) SITP 0 psig. FCP 50 psig. PU HH & put on beam. Mark HH to fit so HH can be pinned. RD HH. Move HH off loc to cut on mounting bracket for mounting. Remount HH. Need different plate to be able to adjust & pin HH. Talked w/Wilson. Decided to leave mounting up to production. LD PR & stuffing box. Space out pump by removing 1" X 4' T66 pony rod. PU & TIH w/PR & stuffing box. PT tbg to 1,000 psig. Tstd OK. Bd. LS pump to 500 psig. Good pump action. Tstd OK. Pull up 25" & clamp of PR. RDHH. Tie chains out of the way. Move pits, geronimo pad, & choke manifold to RU 8-32R & set out of the way of loc. clean up. Spot pump & equip basket out of the way of pumping unit. Leave derrick in the air. Wait on rearend repair for WSU. Final rpt for loc.

RESOLUTE NATURAL RESOURCES

Daily Well Report

Well Name: Ratherford U 2022H

API Number	Section	Township	Range	Field Name	County	State/Province	Wellbore Config
43037309300000	20	41S	24E	Ratherford	San Juan	Utah	Vertical

Ground Elevation (ft)	Casing Flange Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	Well Spud Date/Time	Rig Release Date/Time
4,783.00		9.00		11/28/1983 00:00	1/3/1984 00:00

Report Number	Start Date	End Date	Summary
44	5/8/2012	5/8/2012	Waiting on Rig Repair
45	5/11/2012	5/11/2012	Haul equip back to yard

RECEIVED: Jun. 26, 2012

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ (highlight changes) FORM 8

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER: 1420603353
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo
7. UNIT or CA AGREEMENT NAME: UTU68931A
8. WELL NAME and NUMBER: Ratherford 20-22H
9. API NUMBER: 4303730930
10. FIELD AND POOL, OR WILDCAT: Greater Aneth

1a. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ DRY ☐ OTHER
b. TYPE OF WORK: NEW WELL ☐ HORIZ. LATS. ☑ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER
2. NAME OF OPERATOR: Resolute Natural Resources
3. ADDRESS OF OPERATOR: 1675 Broadway, Ste 1950 CITY Denver STATE CO ZIP 80202 PHONE NUMBER: (303) 573-4886
4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: 2004 FNL, 2049 FWL LATERAL 1
AT TOP PRODUCING INTERVAL REPORTED BELOW: 1784 FNL, 1815 FWL
AT TOTAL DEPTH: 1390 FNL, 1395 FWL, sec 20-41S-R24E BHL by HSM
11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENW 20 41S 24E S
12. COUNTY: San Juan
13. STATE: UTAH

14. DATE SPUDDED: 3/12/2012
15. DATE T.D. REACHED: 3/27/2012
16. DATE COMPLETED: 5/7/2012 ABANDONED ☐ READY TO PRODUCE ☑
17. ELEVATIONS (DF, RKB, RT, GL): 4783' GL
18. TOTAL DEPTH: MD 6,358 TVD 5,567 NW lateral
19. PLUG BACK T.D.: MD TVD
20. IF MULTIPLE COMPLETIONS, HOW MANY? *
21. DEPTH BRIDGE PLUG SET: MD TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
no logs run, two laterals drilled, one to NW and one to SE from original wellbore open perforations

23.
WAS WELL CORED? NO ☑ YES ☐ (Submit analysis)
WAS DST RUN? NO ☑ YES ☐ (Submit report)
DIRECTIONAL SURVEY? NO ☐ YES ☑ (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
18	13.375 K-55	48	0	133		150		0	
12.25	9.675 K-55	40	0	1,610		600		0	
8.75	7 K-55	26	0	5,690		700		2820	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2.875	5,255							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) Desert Creek	5,566			
(B) DC IB	5,589			
(C) DC IC	5,623			
(D) DC IIA	5,653			

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)		SIZE	NO. HOLES	PERFORATION STATUS
5,567	5,582		31	Open ☑ Squeezed ☐
5,582	5,589		14	Open ☑ Squeezed ☐
				Open ☐ Squeezed ☐
				Open ☐ Squeezed ☐

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL

29. ENCLOSED ATTACHMENTS:
☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☑ DIRECTIONAL SURVEY
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☑ OTHER: schematic

RECEIVED SEP 25 2012 Div. of Oil, Gas & Mining

30. WELL STATUS: producing

(5/2000)

(CONTINUED ON BACK)

31. INITIAL PRODUCTION — **INTERVAL A (As shown in item #26)**

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
5/10/2012	5/23/2012	24		97	59	122	pumping

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:
	100	40	40.50		608		97	59	122	producing

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

sold

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
			log tops original hole drilled 1983	Shinarump	2,353
			"	DeChelly	2,655
			"	Hermosa	4,568
			"	Paradox	5,432

35. ADDITIONAL REMARKS (Include plugging procedure)

Page 1 of 2 of completion report to distinguish first (NW lateral)from second (SE lateral), detailed in additional page 2 of 2 completion report; open hole completion, tubing set at 5255 ft, producing from two open lateral to original PBTD of 5618 ft. Well bore schematic attached.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Sherry Glass TITLE Sr Regulatory Technician

SIGNATURE _____ DATE 6/26/2012

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

(5/2000)

RECEIVED JUN 29 2012 DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ (highlight changes) FORM 8

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER: 1420603353
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo
7. UNIT or CA AGREEMENT NAME: UTU68931A
8. WELL NAME and NUMBER: Ratherford 20-22H
9. API NUMBER: 4303730930
10 FIELD AND POOL, OR WILDCAT: Greater Aneth

1a. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ DRY ☐ OTHER
b. TYPE OF WORK: NEW WELL ☐ HORIZ. LATS. ☑ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER

2. NAME OF OPERATOR: Resolute Natural Resources

3. ADDRESS OF OPERATOR: 1675 Broadway, Ste 1950 CITY Denver STATE CO ZIP 80202
PHONE NUMBER: (303) 573-4886

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: 2004 FNL, 2049 FWL
LATERAL 2
AT TOP PRODUCING INTERVAL REPORTED BELOW: 2291 FNL, 2303 FWL
AT TOTAL DEPTH: 1627 FSL, 1701 FEL, sec 20-41S-R24E BHL by HSM

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENW 20 41S 24E S
12. COUNTY: San Juan
13. STATE: UTAH

14. DATE SPUDDED: 3/12/2012
15. DATE T.D. REACHED: 3/27/2012
16. DATE COMPLETED: 5/7/2012 ABANDONED ☐ READY TO PRODUCE ☑
17. ELEVATIONS (DF, RKB, RT, GL): 4783' GL

18. TOTAL DEPTH: MD 7,683 TVD 5,557 SE lateral
19. PLUG BACK T.D.: MD TVD
20. IF MULTIPLE COMPLETIONS, HOW MANY? *
21. DEPTH BRIDGE PLUG SET: MD TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
no logs run, two laterals drilled, one to NW and one to SE original wellbore open perforations

23.
WAS WELL CORED? NO ☑ YES ☐ (Submit analysis)
WAS DST RUN? NO ☑ YES ☐ (Submit report)
DIRECTIONAL SURVEY? NO ☐ YES ☑ (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
18	13.375 K-55	48	0	133		150		0	
12.25	9.675 K-55	40	0	1,610		600		0	
8.75	7 K-55	26	0	5,690		700		2820	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2.875	5,255							

26. PRODUCING INTERVALS

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INTERVAL (Top/Bot - MD)		SIZE	NO. HOLES	PERFORATION STATUS
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5,582	5,589		14	Open ☑ Squeezed ☐
				Open ☐ Squeezed ☐
				Open ☐ Squeezed ☐

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL

29. ENCLOSED ATTACHMENTS:

☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☑ DIRECTIONAL SURVEY
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☑ OTHER: schematic

30. WELL STATUS: producing

(5/2000)

(CONTINUED ON BACK)

31. INITIAL PRODUCTION — **INTERVAL A (As shown in item #26)**

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CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:
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INTERVAL B (As shown in item #26)

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CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

sold

33. SUMMARY OF POROUS ZONES (Include Aquifers):

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34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
			log tops original hole drilled 1983	Shinarump	2,353
			"	DeChelly	2,655
			"	Hermosa	4,568
			"	Paradox	5,432

35. ADDITIONAL REMARKS (Include plugging procedure)

Page 1 of 2 of completion report to distinguish first (NW lateral)from second (SE lateral), detailed in additional page 2 of 2 completion report; open hole completion, tubing set at 5255 ft, producing from two open lateral to original PBTD of 5618 ft. Well bore schematic attached.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Sherry Glass TITLE Sr Regulatory Technician

SIGNATURE Sherry Glass DATE 6/26/2012

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

(5/2000)

The Utah Division of Oil, Gas, and Mining
- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Complete Report

COPY

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth,reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL Oil Well	**5.LEASE DESIGNATION AND SERIAL NUMBER:** 14-20-603-353
	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NAVAJO
	7.UNIT or CA AGREEMENT NAME: RATHERFORD
	8. WELL NAME and NUMBER: 20-22H
2. NAME OF OPERATOR: RESOLUTE NATURAL RESOURCES	**9. API NUMBER:** 43037309300000
3. ADDRESS OF OPERATOR: 1675 Boradway Ste 1950 , Denver, CO, 80202 **PHONE NUMBER:** 303 534-4600 Ext	**10. FIELD and POOL or WILDCAT:** GREATER ANETH
4. LOCATION OF WELL **FOOTAGES AT SURFACE:** 2004 FNL 2049 FWL **QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:** Qtr/Qtr: SENW Section: 20 Township: 41.0S Range: 24.0E Meridian: S	**COUNTY:** SAN JUAN **STATE:** UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
○ NOTICE OF INTENT **Approximate date work will start:**	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
◉ SUBSEQUENT REPORT **Date of Work Completion:** 5/7/2012	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
○ SPUD REPORT **Date of Spud:**	☑ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
○ DRILLING REPORT **Report Date:**	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	**OTHER:**

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Resolute Natural Resources has completed the Ratherford Unit 20-22H in the Desert Creek , Desert Creek IB, Desert Creek IC, and Desert Creek IIA formations on May 9, 2012. The well is producing oil at the rate of 97 BOPD, 59 MCFD and 122 BWPD with an electric pumping unit from an open-hole interval from 5255 ft to approximately 5545 ft(TVD) from two completed open laterals.

The maximum number of characters for the box above is 900. There are 900 Characters remaining.

NAME (PLEASE PRINT) **PHONE NUMBER** Sherry Glass 303 573-4886	**TITLE** Sr Regulatory Technician
SIGNATURE N/A	**DATE** 6/26/2012

Complete Report

RATHERFORD UNIT # 20-22

GREATER ANETH FIELD

2020' FNL & 2090' FWL

SEC 20-T41S-R24E

SAN JUAN COUNTY, UTAH

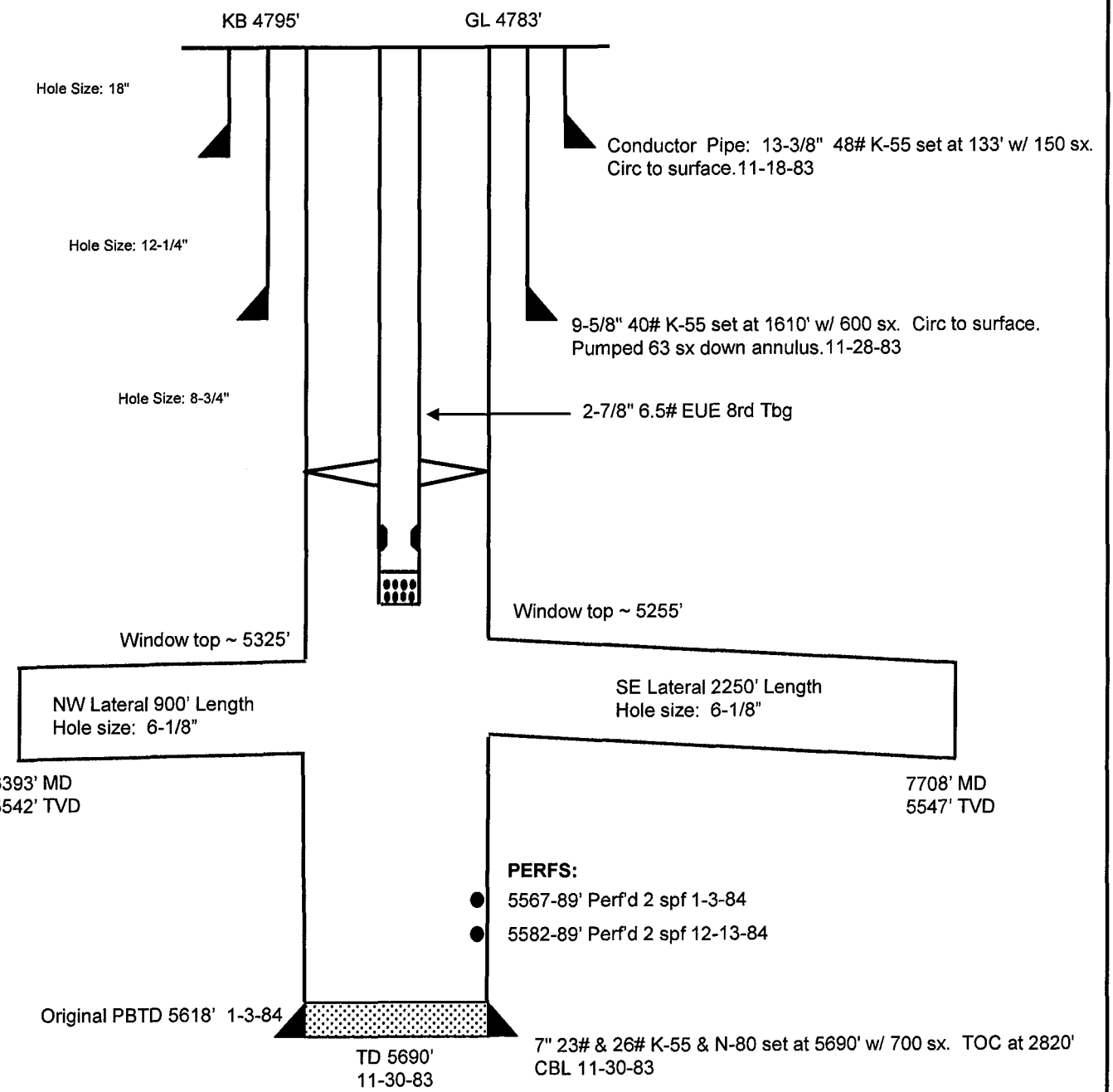
API 43-037-30930

PRISM 0043096

PRODUCER

Capacities:	bbl/ft	gal/ft	cuft/ft
2-7/8" 6.5#	.00579	.2431	.0325
7" 23#	.0393	1.6535	.2210
7" 26#	.0382	1.6070	.2148
2-7/8"x7"23#	.0313	1.3162	.1760
2-7/8"x7"26#	.0302	1.2698	.1697

ATTACHMENT :COMPLETED



K.B. Duhon 12-3-02 R.U. # 20-22

MESA WEST
DIRECTIONAL
TECHNOLOGIES USA I LLC

Resolute Energy Corporation

Ratherford
Ratherford 20-22H
SEC 20 - T41S - R24E

NW Leg

Survey: NW Led As Drilled

Standard Survey Report

15 March, 2012

Resolute
Energy Corporation

Company:	Resolute Energy Corporation	Local Co-ordinate Reference:	Site Ratherford 20-22H
Project:	Ratherford	TVD Reference:	KB @ 4799.0usft (Original Well Elev)
Site:	Ratherford 20-22H	MD Reference:	KB @ 4799.0usft (Original Well Elev)
Well:	SEC 20 - T41S - R24E	North Reference:	True
Wellbore:	NW Leg	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled NW Leg	Job:	

Project Ratherford

Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Utah Central 4302		Using geodetic scale factor

Site Ratherford 20-22H

Site Position:		**Northing:**	-401,568.52 usft	**Latitude:**	37° 12' 34.668 N
From:	Lat/Long	**Easting:**	2,639,441.92 usft	**Longitude:**	109° 18' 22.355 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	1.41 °

Well SEC 20 - T41S - R24E

Well Position	**+N/-S**	0.0 usft	**Northing:**	-401,568.52 usft	**Latitude:**	37° 12' 34.668 N
	+E/-W	0.0 usft	**Easting:**	2,639,441.92 usft	**Longitude:**	109° 18' 22.355 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	4,783.0 usft

Wellbore NW Leg

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/03/2012	10.50	63.55	50,727

Design As Drilled NW Leg

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	313.36

Survey Program Date 15/03/2012

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
5,325.0	6,358.0	NW Led As Drilled (NW Leg)		

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	4,799.00	0.0	0.0	0.0	0.00	0.00	0.00
Top of Window at 5325 MD										
5,325.0	0.00	302.00	5,325.0	-526.00	0.0	0.0	0.0	0.00	0.00	0.00
Bottom of Window at 5333 MD										
5,333.0	3.30	302.00	5,333.0	-534.00	0.1	-0.2	0.2	41.25	41.25	0.00
5,351.0	9.00	310.68	5,350.9	-551.87	1.3	-1.7	2.1	32.01	31.69	48.25
5,382.0	19.40	313.31	5,380.9	-581.89	6.4	-7.3	9.7	33.60	33.55	8.48
5,410.0	28.00	314.10	5,406.5	-607.50	14.2	-15.4	21.0	30.73	30.71	2.82
5,441.0	34.40	316.40	5,433.0	-634.00	25.6	-26.7	37.0	21.00	20.65	7.42

Company:	Resolute Energy Corporation	Local Co-ordinate Reference:	Site Ratherford 20-22H
Project:	Ratherford	TVD Reference:	KB @ 4799.0usft (Original Well Elev)
Site:	Ratherford 20-22H	MD Reference:	KB @ 4799.0usft (Original Well Elev)
Well:	SEC 20 - T41S - R24E	North Reference:	True
Wellbore:	NW Leg	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled NW Leg	Job:	

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,472.0	39.60	316.50	5,457.8	-658.75	39.2	-39.5	55.6	16.78	16.77	0.32
5,503.0	44.30	315.70	5,480.8	-681.80	54.1	-53.9	76.3	15.26	15.16	-2.58
5,534.0	48.60	314.90	5,502.2	-703.16	70.0	-69.7	98.8	14.00	13.87	-2.58
5,564.0	52.70	313.00	5,521.2	-722.17	86.1	-86.4	122.0	14.52	13.67	-6.33
5,594.0	57.30	311.80	5,538.4	-739.38	102.7	-104.6	146.5	15.68	15.33	-4.00
5,625.0	61.50	311.60	5,554.2	-755.15	120.4	-124.5	173.2	13.56	13.55	-0.65
5,657.0	65.80	312.50	5,568.4	-769.35	139.6	-145.8	201.9	13.67	13.44	2.81
5,688.0	70.20	312.60	5,580.0	-780.96	159.1	-166.9	230.6	14.20	14.19	0.32
5,719.0	75.50	312.20	5,589.1	-790.10	179.0	-188.8	260.2	17.14	17.10	-1.29
5,751.0	81.40	312.50	5,595.5	-796.51	200.1	-212.0	291.5	18.46	18.44	0.94
5,781.0	87.20	311.70	5,598.5	-799.49	220.2	-234.1	321.4	19.51	19.33	-2.67
5,812.0	92.00	311.30	5,598.7	-799.70	240.7	-257.3	352.3	15.54	15.48	-1.29
5,842.0	92.30	311.40	5,597.6	-798.58	260.5	-279.8	382.3	1.05	1.00	0.33
5,873.0	93.10	312.70	5,596.1	-797.12	281.2	-302.8	413.3	4.92	2.58	4.19
5,904.0	92.80	312.70	5,594.5	-795.52	302.2	-325.6	444.2	0.97	-0.97	0.00
5,935.0	92.90	312.90	5,593.0	-793.98	323.3	-348.3	475.2	0.72	0.32	0.65
5,967.0	92.90	312.90	5,591.4	-792.36	345.0	-371.7	507.1	0.00	0.00	0.00
5,998.0	92.90	313.00	5,589.8	-790.79	366.1	-394.4	538.1	0.32	0.00	0.32
6,029.0	92.90	313.30	5,588.2	-789.22	387.3	-417.0	569.0	0.97	0.00	0.97
6,060.0	93.70	313.50	5,586.4	-787.44	408.6	-439.4	600.0	2.66	2.58	0.65
6,091.0	94.30	313.80	5,584.3	-785.28	429.9	-461.8	630.9	2.16	1.94	0.97
6,122.0	94.40	313.90	5,581.9	-782.92	451.3	-484.1	661.8	0.46	0.32	0.32
6,154.0	94.30	314.10	5,579.5	-780.50	473.5	-507.1	693.7	0.70	-0.31	0.63
6,185.0	94.90	314.50	5,577.0	-778.01	495.1	-529.2	724.6	2.32	1.94	1.29
6,216.0	93.30	315.00	5,574.8	-775.80	516.8	-551.1	755.5	5.41	-5.16	1.61
6,247.0	90.30	314.30	5,573.8	-774.82	538.6	-573.2	786.5	9.94	-9.68	-2.26
6,278.0	92.60	313.50	5,573.0	-774.04	560.1	-595.5	817.5	7.86	7.42	-2.58
6,308.0	94.50	312.50	5,571.2	-772.18	580.5	-617.4	847.4	7.15	6.33	-3.33
6,316.0	95.20	312.60	5,570.5	-771.50	585.9	-623.3	855.4	8.84	8.75	1.25
Extrap. to TD at 6358 MD										
6,358.0	95.20	312.60	5,566.7	-767.70	614.2	-654.1	897.2	0.00	0.00	0.00

Company:	Resolute Energy Corporation	Local Co-ordinate Reference:	Site Ratherford 20-22H
Project:	Ratherford	TVD Reference:	KB @ 4799.0usft (Original Well Elev)
Site:	Ratherford 20-22H	MD Reference:	KB @ 4799.0usft (Original Well Elev)
Well:	SEC 20 - T41S - R24E	North Reference:	True
Wellbore:	NW Leg	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled NW Leg	Job:	

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
5,325.0	5,325.0	0.0	0.0	Top of Window at 5325 MD
5,333.0	5,333.0	0.1	-0.2	Bottom of Window at 5333 MD
6,358.0	5,566.7	614.2	-654.1	Extrap. to TD at 6358 MD

Site: Ratherford 20-22H
Well: SEC 20 - T41S - R24E
Wellbore: NW Leg
Design: As Drilled NW Leg

Resolute
Energy Corporation

MESA WEST DIRECTIONAL
TECHNOLOGIES USA | LLC

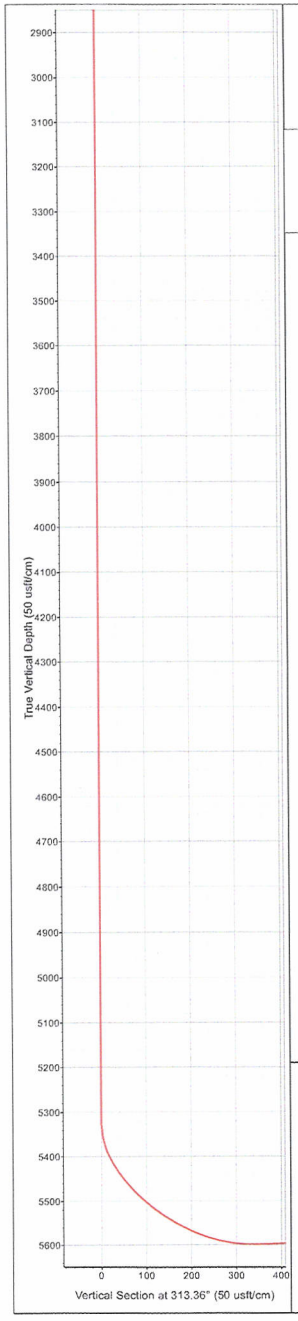
REFERENCE INFORMATION

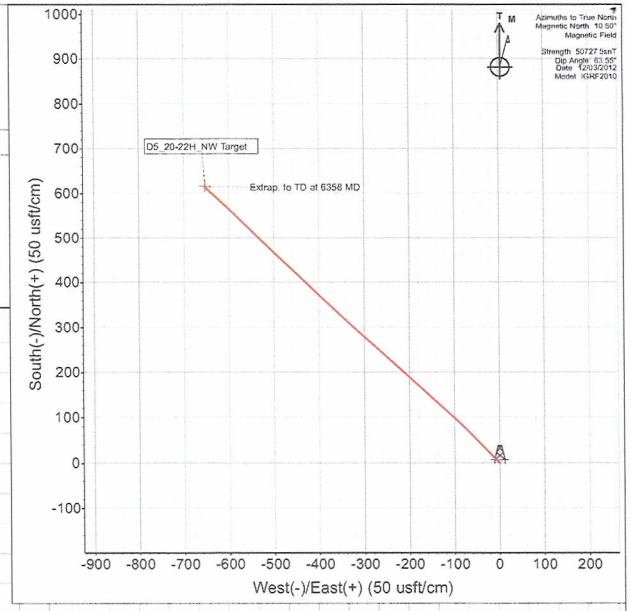
Co-ordinate (N/E) Reference: Site Ratherford 20-22H, True North
Calculation Method: Minimum Curvature

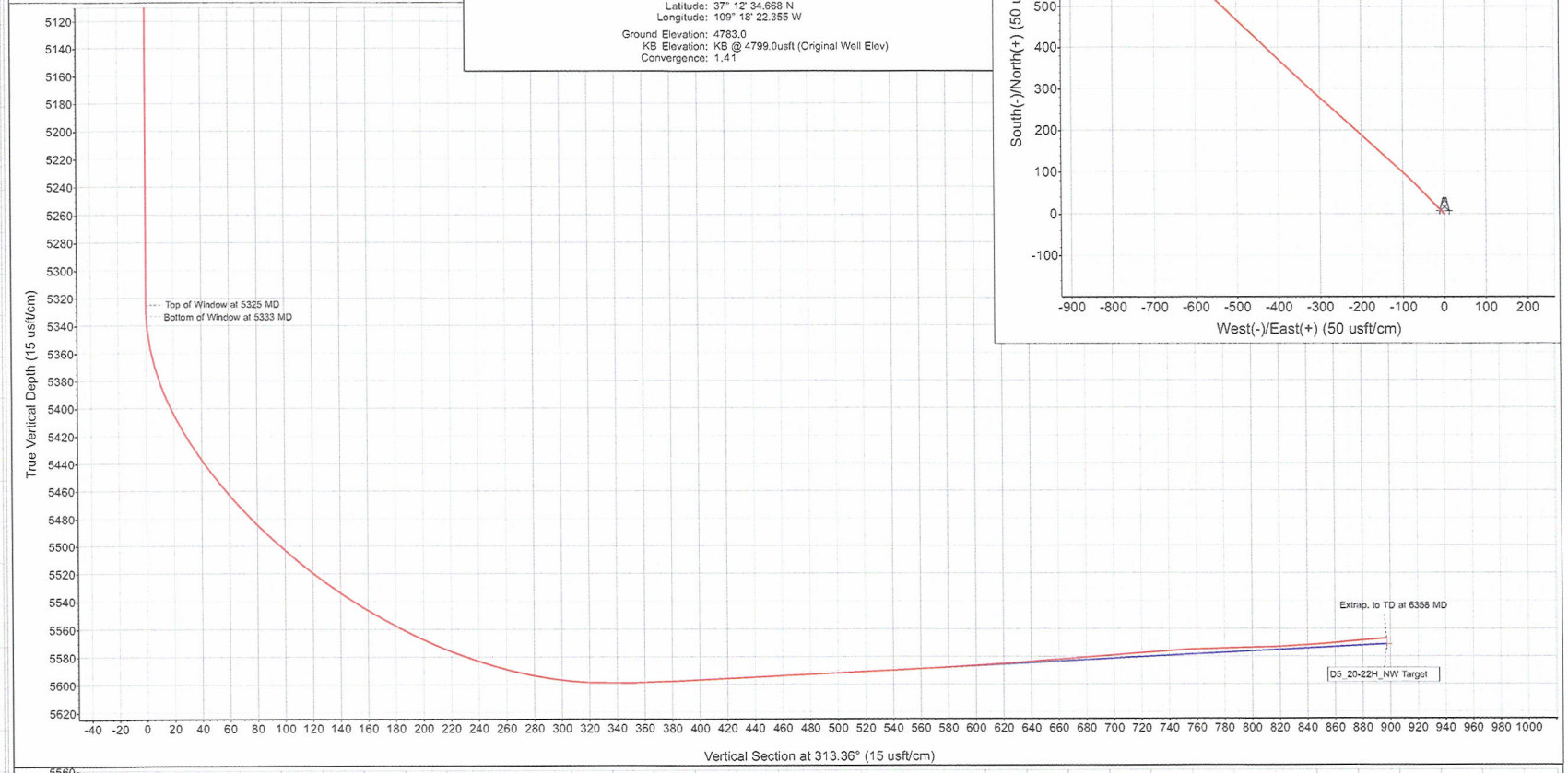
Northing: -401568.52
Easting: 2639441.92

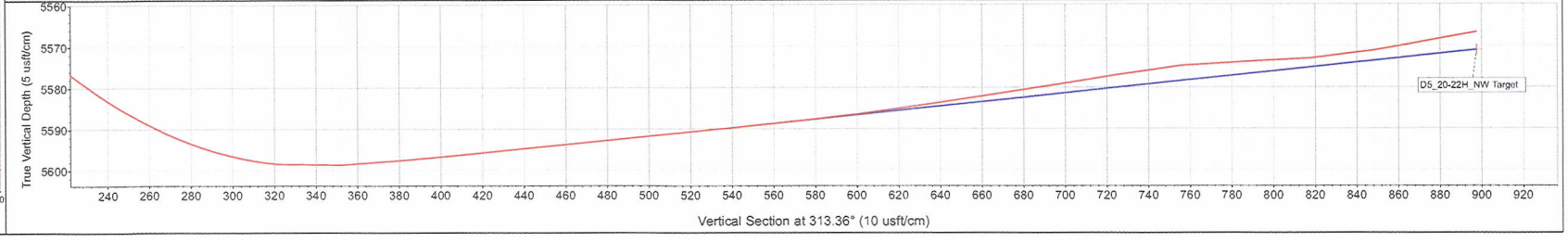
Latitude: 37° 12' 34.668 N
Longitude: 109° 18' 22.355 W

Ground Elevation: 4783.0
KB Elevation: KB @ 4799.0usft (Original Well Elev)
Convergence: 1.41









MESA WEST
DIRECTIONAL
TECHNOLOGIES USA | LLC

Resolute Energy Corporation

Ratherford
Ratherford 20-22H
SEC 20 - T41S - R24E

SE Leg

Survey: As Drilled

Standard Survey Report

26 March, 2012

Resolute
Energy Corporation

Company:	Resolute Energy Corporation	Local Co-ordinate Reference:	Site Ratherford 20-22H
Project:	Ratherford	TVD Reference:	KB @ 4799.0usft (Original Well Elev)
Site:	Ratherford 20-22H	MD Reference:	KB @ 4799.0usft (Original Well Elev)
Well:	SEC 20 - T41S - R24E	North Reference:	True
Wellbore:	SE Leg	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Job:	

Project Ratherford

Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Utah Central 4302		Using geodetic scale factor

Site Ratherford 20-22H

Site Position:		**Northing:**	-401,568.52 usft	**Latitude:**	37° 12' 34.668 N
From:	Lat/Long	**Easting:**	2,639,441.92 usft	**Longitude:**	109° 18' 22.355 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	1.41 °

Well SEC 20 - T41S - R24E

Well Position	**+N/-S**	0.0 usft	**Northing:**	-401,568.52 usft	**Latitude:**	37° 12' 34.668 N
	+E/-W	0.0 usft	**Easting:**	2,639,441.92 usft	**Longitude:**	109° 18' 22.355 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	4,783.0 usft

Wellbore SE Leg

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/03/2012	10.50	63.55	50,727

Design As Drilled

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	137.23

Survey Program Date 26/03/2012

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
5,251.0	7,683.0	As Drilled (SE Leg)	MWD	MWD - Standard

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	4,799.00	0.0	0.0	0.0	0.00	0.00	0.00
Top of Window at 5251.0 MD										
5,251.0	0.00	0.00	5,251.0	-452.00	0.0	0.0	0.0	0.00	0.00	0.00
5,261.0	3.80	127.00	5,261.0	-461.98	-0.2	0.3	0.3	38.04	38.04	0.00
5,285.0	6.50	140.87	5,284.9	-485.88	-1.7	1.8	2.5	12.31	11.25	57.79
5,317.0	12.10	145.82	5,316.5	-517.45	-5.9	4.8	7.6	17.66	17.50	15.47
5,348.0	20.10	147.80	5,346.2	-547.21	-13.1	9.5	16.1	25.86	25.81	6.39
5,378.0	28.30	153.70	5,373.6	-574.56	-23.9	15.4	28.0	28.47	27.33	19.67

Company:	Resolute Energy Corporation	Local Co-ordinate Reference:	Site Ratherford 20-22H
Project:	Ratherford	TVD Reference:	KB @ 4799.0usft (Original Well Elev)
Site:	Ratherford 20-22H	MD Reference:	KB @ 4799.0usft (Original Well Elev)
Well:	SEC 20 - T41S - R24E	North Reference:	True
Wellbore:	SE Leg	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Job:	

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,410.0	34.10	150.30	5,400.9	-601.92	-38.5	23.2	44.0	18.94	18.13	-10.63
5,441.0	38.30	143.80	5,425.9	-626.94	-53.8	33.2	62.0	18.34	13.55	-20.97
5,472.0	41.50	138.70	5,449.7	-650.72	-69.3	45.6	81.8	14.76	10.32	-16.45
5,503.0	45.30	137.60	5,472.2	-673.24	-85.1	59.8	103.1	12.50	12.26	-3.55
5,534.0	49.10	137.60	5,493.3	-694.30	-101.9	75.2	125.9	12.26	12.26	0.00
5,566.0	54.20	138.00	5,513.1	-714.15	-120.5	92.0	151.0	15.97	15.94	1.25
5,597.0	58.80	137.10	5,530.3	-731.26	-139.6	109.5	176.8	15.03	14.84	-2.90
5,629.0	63.80	135.50	5,545.6	-746.62	-159.9	128.9	204.9	16.23	15.63	-5.00
5,660.0	68.40	134.80	5,558.2	-759.17	-179.9	148.8	233.2	14.98	14.84	-2.26
5,691.0	70.60	135.20	5,569.0	-770.03	-200.5	169.4	262.2	7.20	7.10	1.29
5,722.0	72.80	135.60	5,578.8	-779.76	-221.4	190.0	291.6	7.20	7.10	1.29
5,754.0	77.10	135.70	5,587.1	-788.07	-243.5	211.6	322.5	13.44	13.44	0.31
5,785.0	82.40	136.00	5,592.6	-793.58	-265.4	232.9	353.0	17.12	17.10	0.97
5,815.0	88.00	136.40	5,595.1	-796.09	-287.0	253.6	382.8	18.71	18.67	1.33
5,847.0	92.50	137.20	5,595.0	-795.95	-310.3	275.5	414.8	14.28	14.06	2.50
5,878.0	90.60	135.70	5,594.1	-795.12	-332.7	296.8	445.8	7.81	-6.13	-4.84
5,908.0	89.90	134.90	5,594.0	-794.98	-354.1	317.9	475.8	3.54	-2.33	-2.67
5,938.0	92.00	135.30	5,593.5	-794.49	-375.3	339.1	505.8	7.13	7.00	1.33
5,970.0	89.80	134.60	5,593.0	-793.98	-397.9	361.7	537.7	7.21	-6.88	-2.19
6,001.0	89.60	134.00	5,593.1	-794.15	-419.6	383.9	568.7	2.04	-0.65	-1.94
6,033.0	90.40	133.60	5,593.1	-794.15	-441.7	407.0	600.6	2.80	2.50	-1.25
6,064.0	90.70	133.60	5,592.8	-793.85	-463.1	429.5	631.6	0.97	0.97	0.00
6,095.0	91.50	134.50	5,592.3	-793.25	-484.6	451.7	662.5	3.88	2.58	2.90
6,125.0	91.60	134.50	5,591.4	-792.44	-505.7	473.1	692.5	0.33	0.33	0.00
6,157.0	91.50	134.40	5,590.6	-791.58	-528.1	496.0	724.4	0.44	-0.31	-0.31
6,188.0	92.80	135.80	5,589.4	-790.41	-550.0	517.8	755.4	6.16	4.19	4.52
6,219.0	93.00	135.80	5,587.8	-788.85	-572.2	539.4	786.3	0.65	0.65	0.00
6,250.0	93.20	136.40	5,586.2	-787.17	-594.5	560.9	817.3	2.04	0.65	1.94
6,281.0	93.80	136.50	5,584.3	-785.28	-616.9	582.2	848.2	1.96	1.94	0.32
6,311.0	93.70	137.90	5,582.3	-783.31	-638.9	602.5	878.2	4.67	-0.33	4.67
6,341.0	94.20	137.70	5,580.2	-781.25	-661.1	622.6	908.1	1.79	1.67	-0.67
6,372.0	92.90	137.30	5,578.3	-779.33	-683.9	643.5	939.0	4.39	-4.19	-1.29
6,403.0	92.20	135.40	5,576.9	-777.95	-706.3	664.9	970.0	6.53	-2.26	-6.13
6,434.0	90.70	136.00	5,576.2	-777.17	-728.5	686.6	1,001.0	5.21	-4.84	1.94
6,465.0	89.40	136.50	5,576.1	-777.14	-750.9	708.0	1,032.0	4.49	-4.19	1.61

Company:	Resolute Energy Corporation	Local Co-ordinate Reference:	Site Ratherford 20-22H
Project:	Ratherford	TVD Reference:	KB @ 4799.0usft (Original Well Elev)
Site:	Ratherford 20-22H	MD Reference:	KB @ 4799.0usft (Original Well Elev)
Well:	SEC 20 - T41S - R24E	North Reference:	True
Wellbore:	SE Leg	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Job:	

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
6,496.0	89.00	136.40	5,576.6	-777.57	-773.3	729.3	1,063.0	1.33	-1.29	-0.32
6,527.0	90.70	138.60	5,576.7	-777.65	-796.2	750.3	1,094.0	8.97	5.48	7.10
6,558.0	92.00	139.00	5,575.9	-776.92	-819.5	770.7	1,124.9	4.39	4.19	1.29
6,589.0	91.60	139.40	5,574.9	-775.95	-843.0	790.9	1,155.9	1.82	-1.29	1.29
6,620.0	91.60	139.20	5,574.1	-775.08	-866.4	811.2	1,186.9	0.64	0.00	-0.65
6,651.0	91.10	138.60	5,573.4	-774.35	-889.8	831.5	1,217.8	2.52	-1.61	-1.94
6,682.0	89.90	138.20	5,573.1	-774.08	-913.0	852.1	1,248.8	4.08	-3.87	-1.29
6,714.0	87.90	137.60	5,573.7	-774.70	-936.7	873.6	1,280.8	6.53	-6.25	-1.88
6,743.0	88.00	137.40	5,574.7	-775.73	-958.1	893.1	1,309.8	0.77	0.34	-0.69
6,774.0	88.10	137.30	5,575.8	-776.79	-980.9	914.1	1,340.8	0.46	0.32	-0.32
6,805.0	88.80	137.50	5,576.6	-777.63	-1,003.7	935.1	1,371.8	2.35	2.26	0.65
6,837.0	89.10	137.40	5,577.2	-778.21	-1,027.3	956.7	1,403.8	0.99	0.94	-0.31
6,868.0	89.10	137.40	5,577.7	-778.70	-1,050.1	977.7	1,434.8	0.00	0.00	0.00
6,899.0	89.60	137.30	5,578.1	-779.05	-1,072.9	998.7	1,465.8	1.64	1.61	-0.32
6,931.0	90.10	137.50	5,578.1	-779.14	-1,096.4	1,020.4	1,497.8	1.68	1.56	0.63
6,961.0	90.40	137.60	5,578.0	-779.00	-1,118.6	1,040.6	1,527.8	1.05	1.00	0.33
6,992.0	90.20	137.60	5,577.8	-778.84	-1,141.4	1,061.5	1,558.8	0.65	-0.65	0.00
7,022.0	90.00	137.60	5,577.8	-778.79	-1,163.6	1,081.8	1,588.8	0.67	-0.67	0.00
7,054.0	90.00	137.30	5,577.8	-778.79	-1,187.2	1,103.4	1,620.8	0.94	0.00	-0.94
7,084.0	90.80	137.70	5,577.6	-778.58	-1,209.3	1,123.7	1,650.8	2.98	2.67	1.33
7,116.0	91.80	138.10	5,576.9	-777.85	-1,233.0	1,145.1	1,682.7	3.37	3.13	1.25
7,145.0	91.00	137.70	5,576.1	-777.15	-1,254.5	1,164.5	1,711.7	3.08	-2.76	-1.38
7,177.0	89.40	137.00	5,576.0	-777.03	-1,278.1	1,186.2	1,743.7	5.46	-5.00	-2.19
7,208.0	89.80	137.10	5,576.3	-777.25	-1,300.8	1,207.3	1,774.7	1.33	1.29	0.32
7,239.0	90.70	137.40	5,576.1	-777.12	-1,323.5	1,228.4	1,805.7	3.06	2.90	0.97
7,270.0	91.40	137.50	5,575.5	-776.55	-1,346.4	1,249.4	1,836.7	2.28	2.26	0.32
7,301.0	91.50	137.50	5,574.8	-775.76	-1,369.2	1,270.3	1,867.7	0.32	0.32	0.00
7,333.0	92.10	137.90	5,573.8	-774.76	-1,392.9	1,291.8	1,899.7	2.25	1.88	1.25
7,364.0	92.60	137.90	5,572.5	-773.49	-1,415.8	1,312.6	1,930.7	1.61	1.61	0.00
7,396.0	92.90	137.80	5,571.0	-771.95	-1,439.5	1,334.0	1,962.6	0.99	0.94	-0.31
7,427.0	92.90	137.90	5,569.4	-770.38	-1,462.5	1,354.8	1,993.6	0.32	0.00	0.32
7,457.0	93.20	137.60	5,567.8	-768.79	-1,484.7	1,374.9	2,023.5	1.41	1.00	-1.00
7,489.0	93.30	137.60	5,566.0	-766.97	-1,508.3	1,396.5	2,055.5	0.31	0.31	0.00
7,520.0	93.20	137.10	5,564.2	-765.22	-1,531.0	1,417.5	2,086.4	1.64	-0.32	-1.61
7,551.0	93.10	136.90	5,562.5	-763.51	-1,553.7	1,438.6	2,117.4	0.72	-0.32	-0.65

Company:	Resolute Energy Corporation	Local Co-ordinate Reference:	Site Ratherford 20-22H
Project:	Ratherford	TVD Reference:	KB @ 4799.0usft (Original Well Elev)
Site:	Ratherford 20-22H	MD Reference:	KB @ 4799.0usft (Original Well Elev)
Well:	SEC 20 - T41S - R24E	North Reference:	True
Wellbore:	SE Leg	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Job:	

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,583.0	92.30	136.40	5,561.0	-762.00	-1,576.9	1,460.5	2,149.4	2.95	-2.50	-1.56
7,614.0	92.60	136.30	5,559.7	-760.68	-1,599.3	1,481.9	2,180.3	1.02	0.97	-0.32
7,641.0	92.60	136.30	5,558.5	-759.45	-1,618.8	1,500.5	2,207.3	0.00	0.00	0.00
Extrap. to TD at 7683.0 MD										
7,683.0	92.60	136.30	5,556.5	-757.55	-1,649.2	1,529.5	2,249.2	0.00	0.00	0.00

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
5,251.0	5,251.0	0.0	0.0	Top of Window at 5251.0 MD
7,683.0	5,556.5	-1,649.2	1,529.5	Extrap. to TD at 7683.0 MD

Site: Ratherford 20-22H
Well: SEC 20 - T41S - R24E
Wellbore: SE Leg
Design: As Drilled

Resolute
Energy Corporation

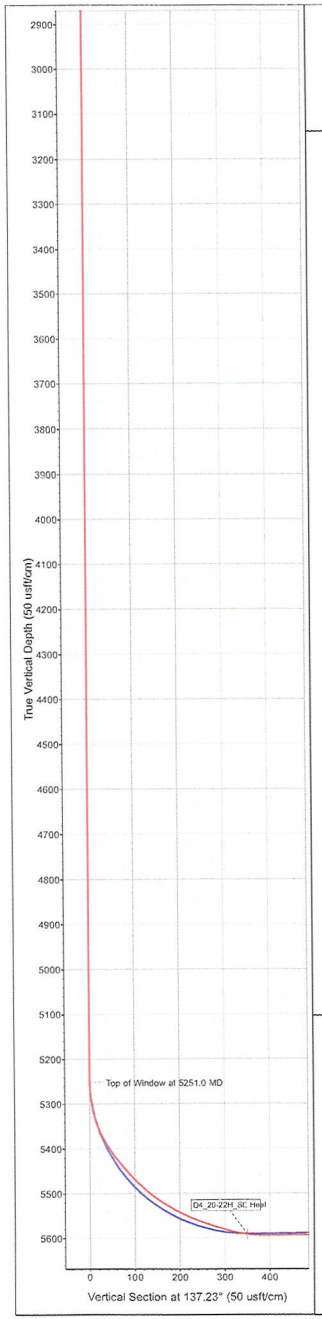
REFERENCE INFORMATION

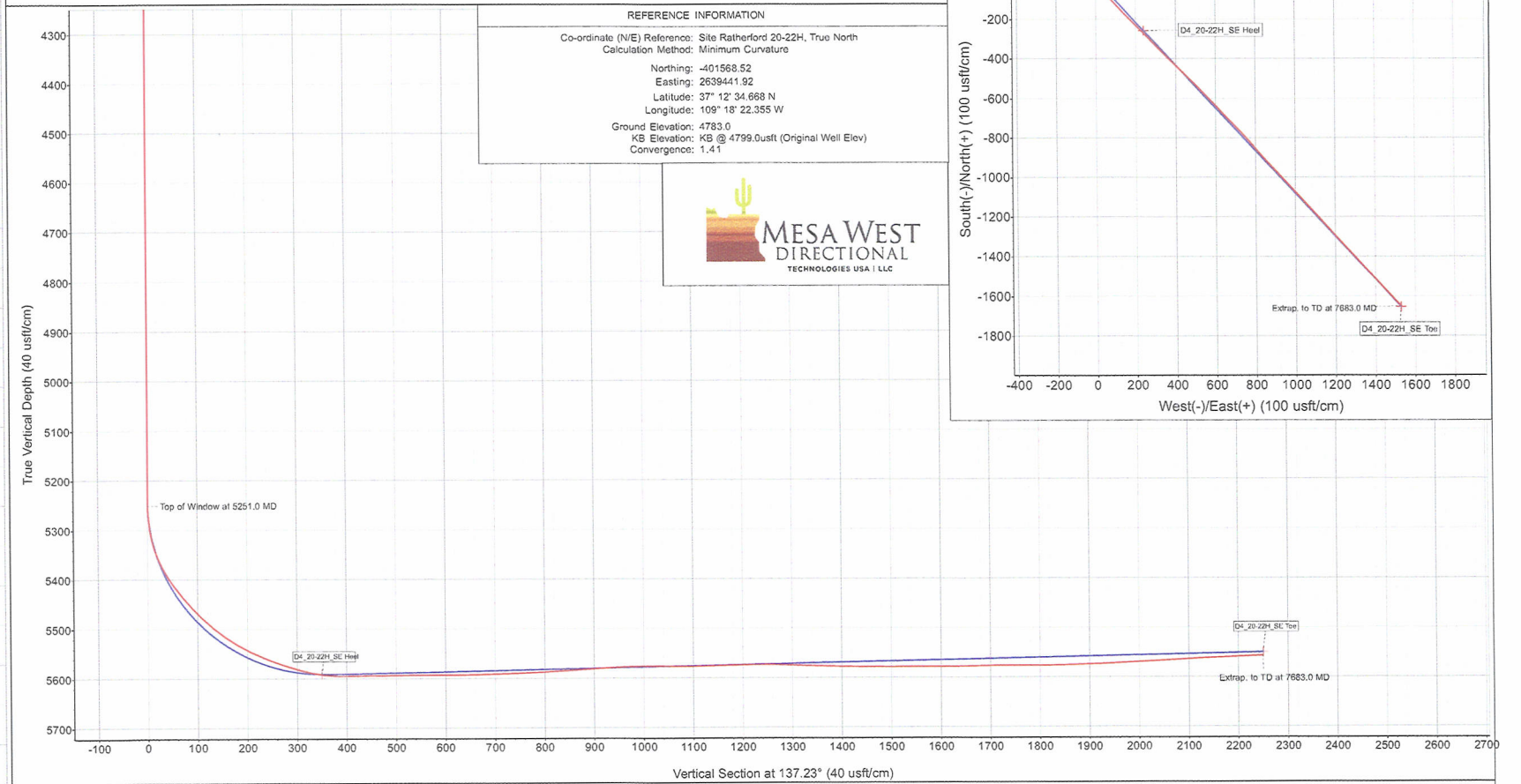
Co-ordinate (N/E) Reference: Site Ratherford 20-22H, True North
Calculation Method: Minimum Curvature

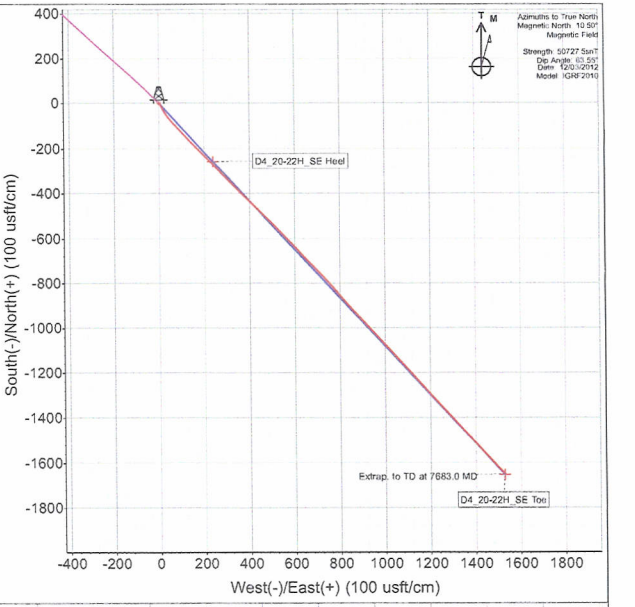
Northing: -401568.52
Easting: 2639441.92
Latitude: 37° 12' 34.668 N
Longitude: 109° 18' 22.355 W

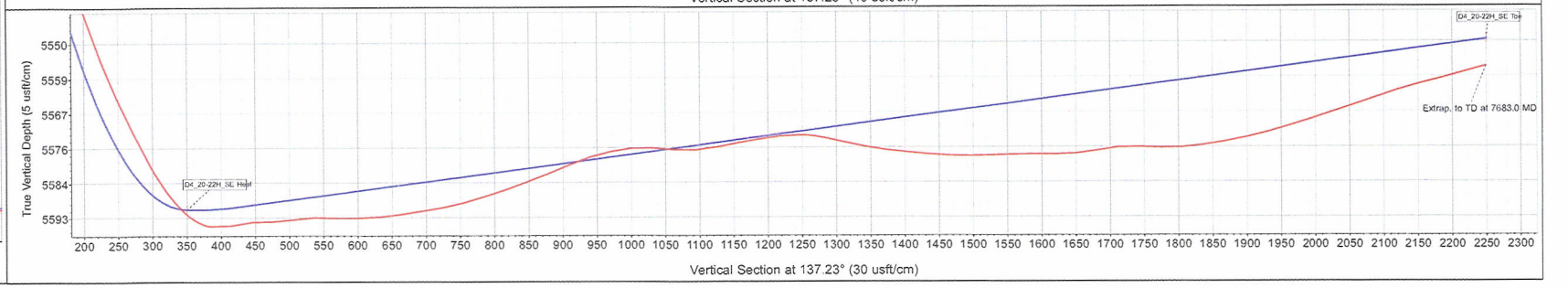
Ground Elevation: 4783.0
KB Elevation: KB @ 4799.0usft (Original Well Elev)
Convergence: 1.41

MESA WEST DIRECTIONAL
TECHNOLOGIES USA | LLC









Sundry Number: 44209 API Well Number: 43037309300000

FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER:
14-20-603-353

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
NAVAJO

7.UNIT or CA AGREEMENT NAME:
RATHERFORD

1. TYPE OF WELL
Oil Well

8. WELL NAME and NUMBER:
20-22H

2. NAME OF OPERATOR:
RESOLUTE NATURAL RESOURCES

9. API NUMBER:
43037309300000

3. ADDRESS OF OPERATOR:
1675 Boradway Ste 1950 , Denver, CO, 80202

PHONE NUMBER:
303 534-4600 Ext

9. FIELD and POOL or WILDCAT:
GREATER ANETH

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
2004 FNL 2049 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: SENW Section: 20 Township: 41.0S Range: 24.0E Meridian: S

COUNTY:
SAN JUAN

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 10/31/2013	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	✓ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Resolute proposes to repair the downhole pump on the subject well to enhance production. The proposed procedure and wellbore schematic are attached. Work is expected to commence on 10-31-13.

Accepted by the Utah Division of Oil, Gas and Mining

Date: October 30, 2013

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Sherry Glass	303 573-4886	Sr Regulatory Technician
SIGNATURE		**DATE**
N/A		10/28/2013

RECEIVED: Oct. 28, 2013

RESOLUTE
NATURAL RESOURCES

RU 20-22H
2004' FNL, 2049' FWL
SENW section 20-T40S-R24E
43-037-30930
Pump Repair

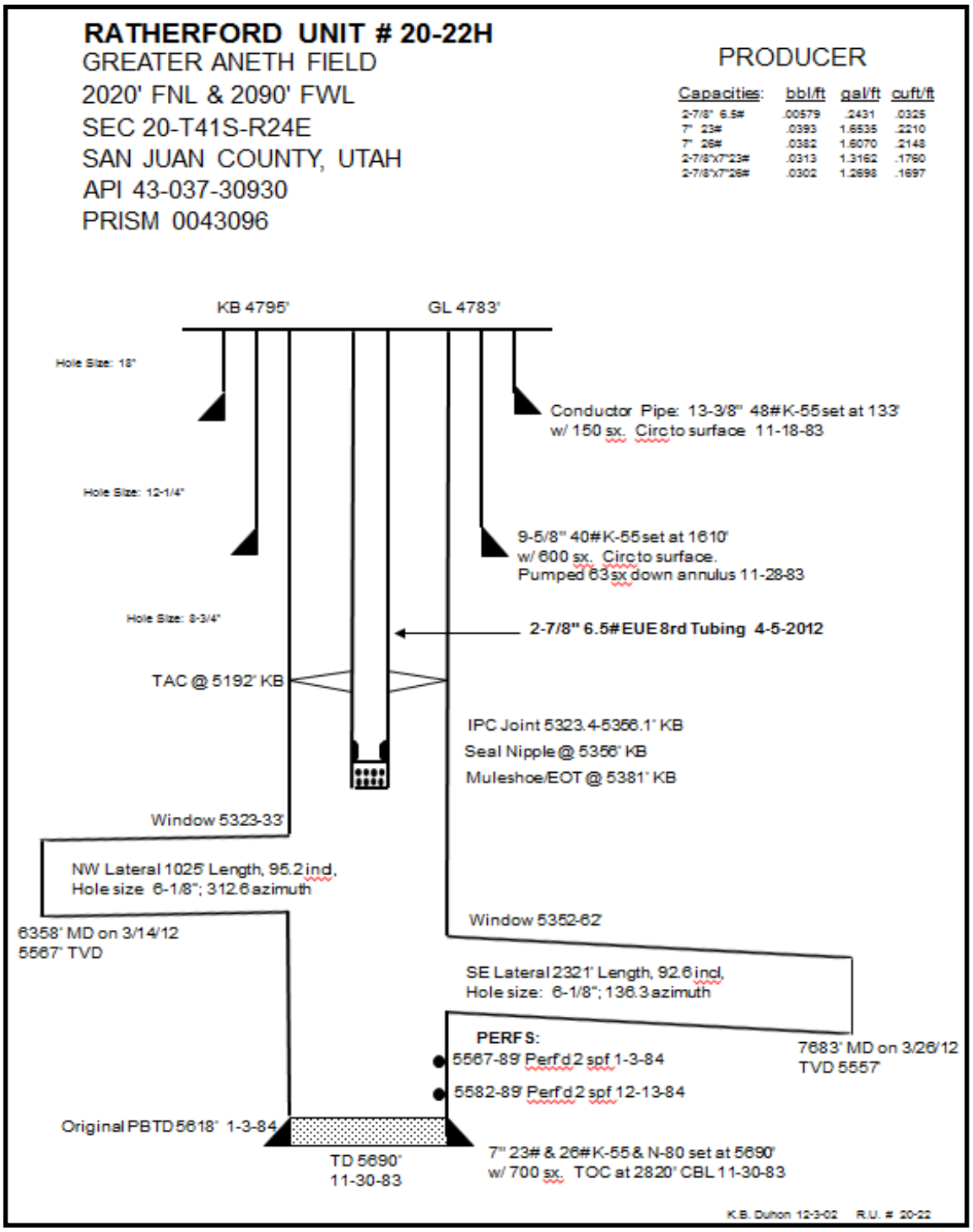
Job Scope

Job Scope includes: MIRI WSU, TOOH with rods, Release TAC and POOH with Tubing, Tag PBTD to check for fill, run new FBNAU tubing, rods & new pump.

Procedure

1. MIRU WSU, LOTO, Kill well as necessary.
2. Pressure test tubing to 1000 psig.
3. POOH with rods and pump. Perform rod backoff as necessary. Stand back rods in derrick. Call and notify Bill Albert (970) 371-9682 for inspection. If unavailable, contact Tech Support: Virgil Holly (435) 444-0020, or Julius Claw (435) 444-0156. Rerun or replace rods per inspection results.
4. NU BOPE, prepare to pull & stand back tubing.
5. Release the TAC @ 5192' KB. Install a packer. Pressure test BOPE.
6. TIH with extra joints & tag fill; current EOT @ 5381' KB. If needed, RIH with Bit & Scraper and CO to PBTD @ 5618'. May have to clean out with N2 Unit.
7. TOOH with tubing, standing back for inspection. Perforate tbg if required to avoid pulling a wet string.
8. Call and notify Bill Albert to inspect tubing. If unavailable, contact Virgil Holly or Julius Claw.
9. If tubing is to be replaced, replace with 2-7/8" FBNAU Tubing.
10. TIH with mud anchor, CSN, 3-1/2" blast jt, 5 jts tubing, TAC, tubing to surface.
11. Run MA below lower lateral, EOT to ~5400; set TAC ~ 5185'.
12. ND BOP, NUWH.
13. RIH with 16' GA, rods & new pump. Contact Tech Support for pump and rod details.
14. Long stroke pump to test for good pumping action.
15. Leave enough polished rod for operators to correctly space pump as required.
16. Notify the Area Production Supervisor Billison Rentz (970) 779-9273 that well is ready to return to production.
17. RDMOL. Hook up appropriate chemical treatment.

RECEIVED: Oct. 28, 2013



RECEIVED: Oct. 28, 2013